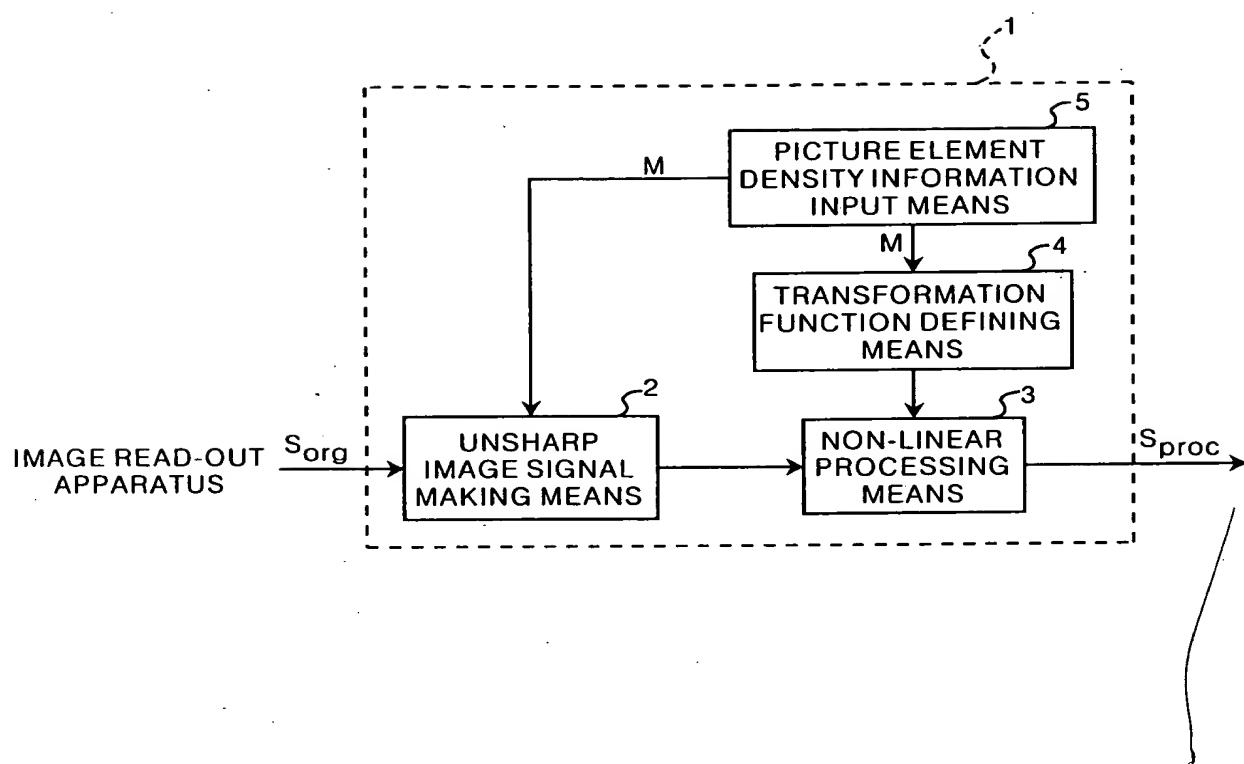
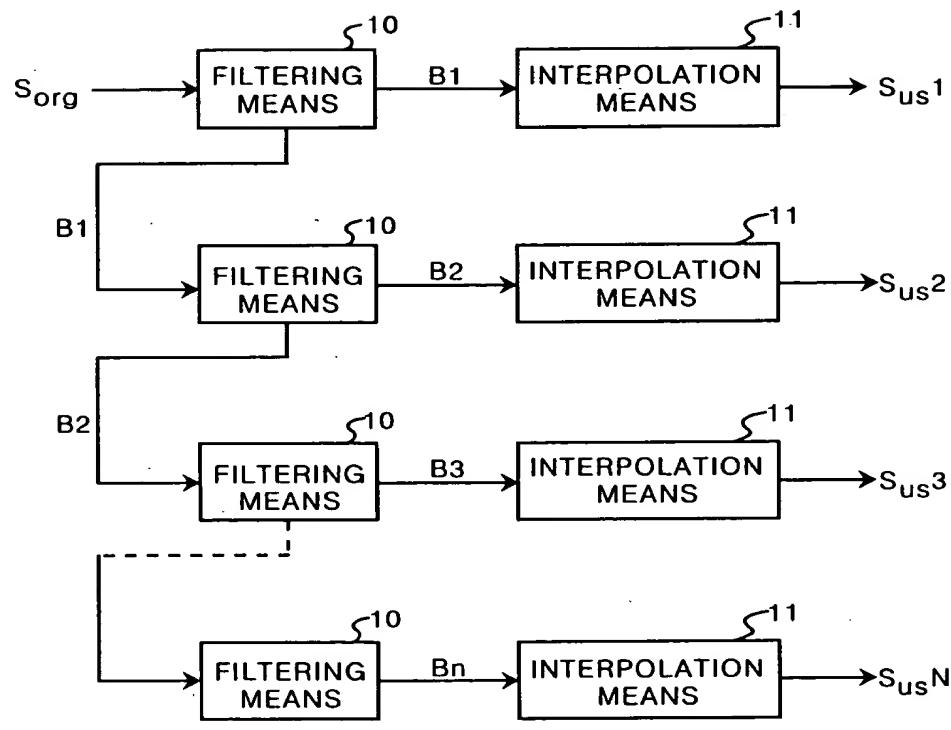


# FIG. 1



# FIG.2



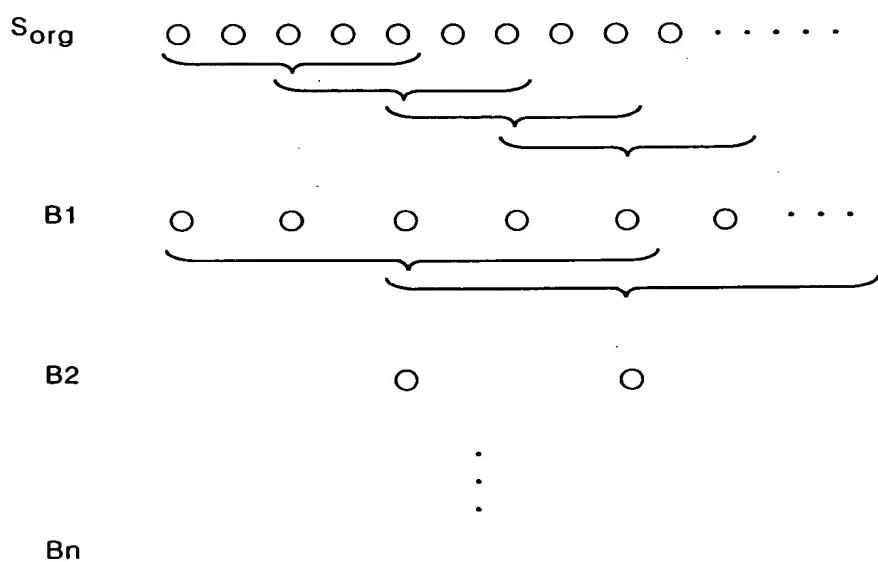
# FIG.3A

0.00	0.05	0.25	0.4	0.25	0.05	0.00
------	------	------	-----	------	------	------

# FIG.3B

0.04	0.12	0.21	0.26	0.21	0.12	0.04
------	------	------	------	------	------	------

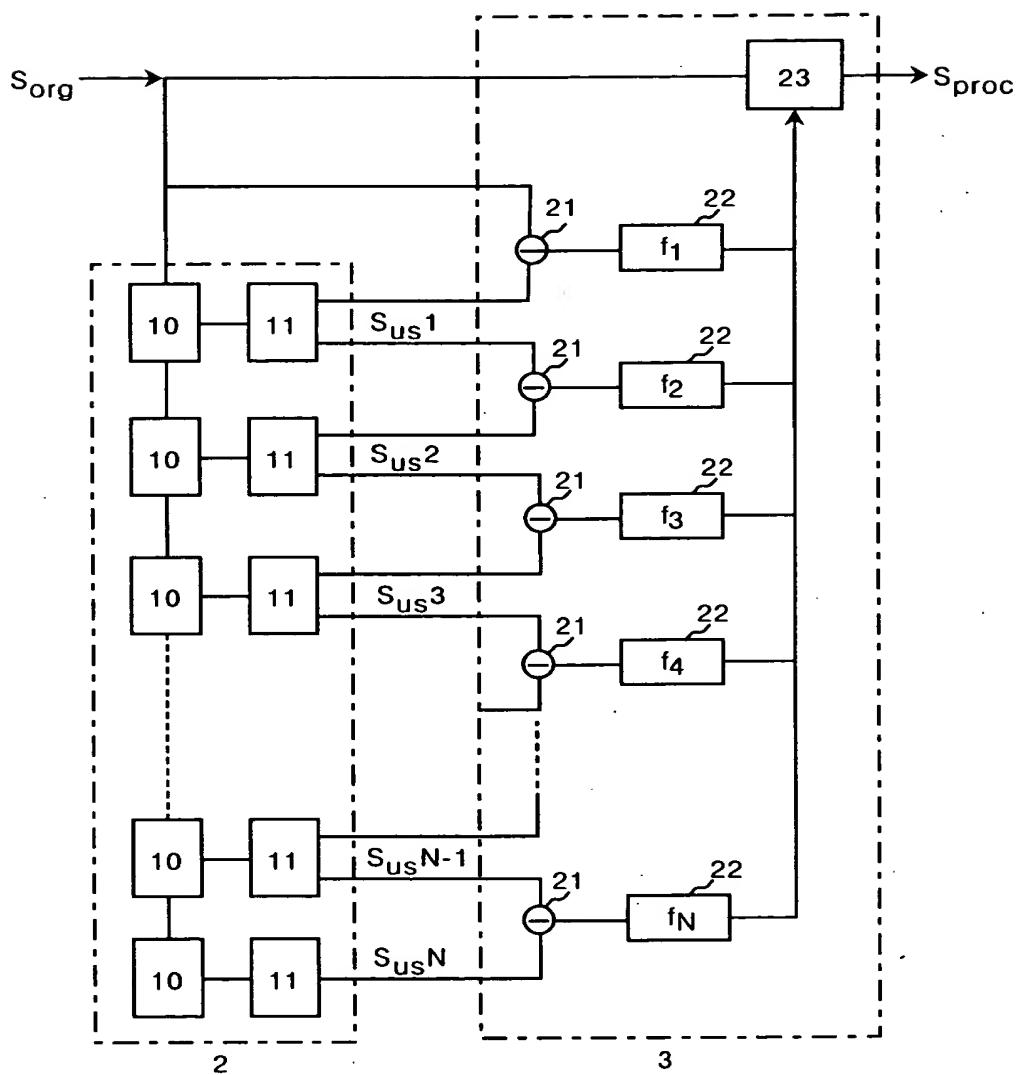
# FIG.4



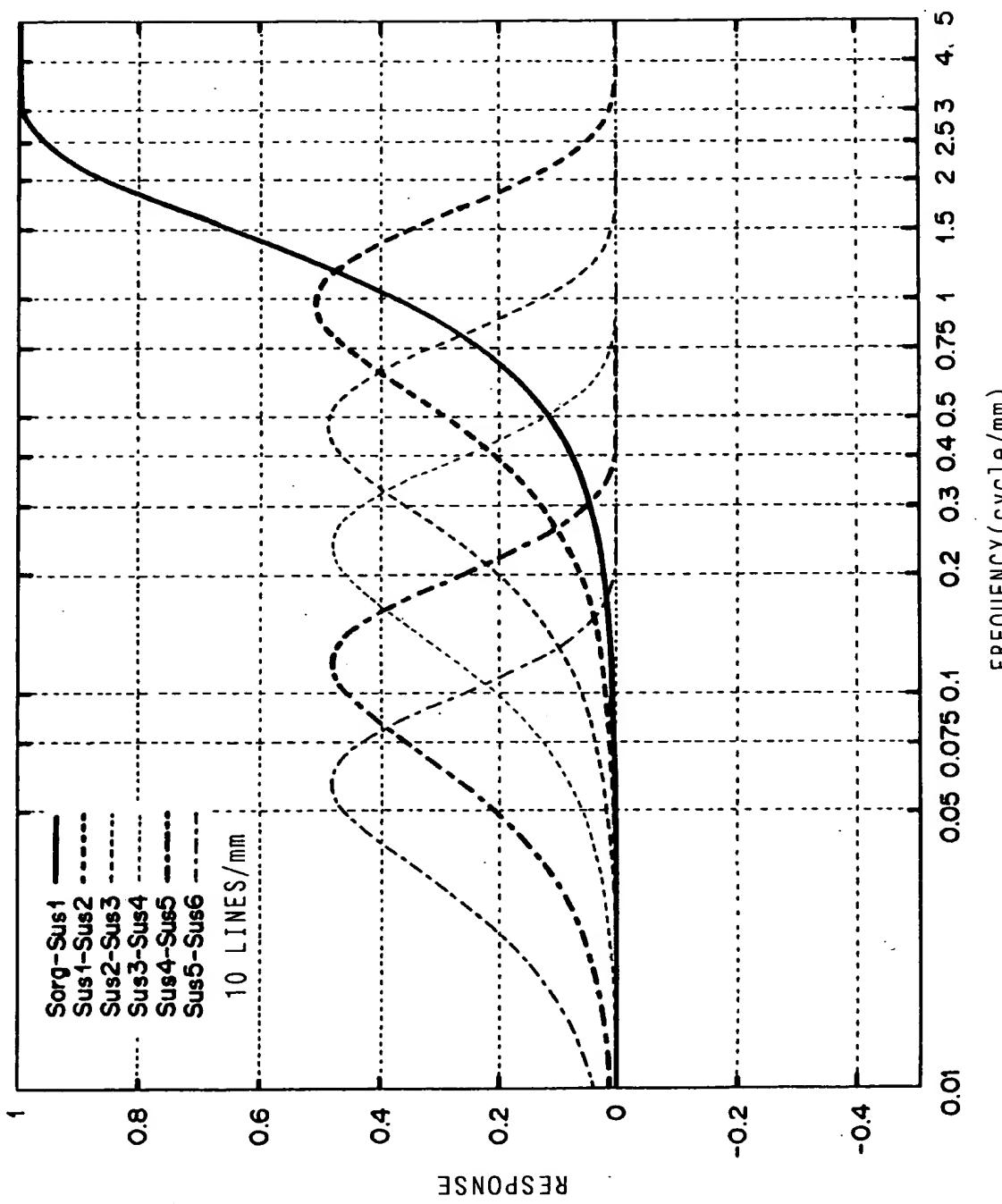
# FIG.5

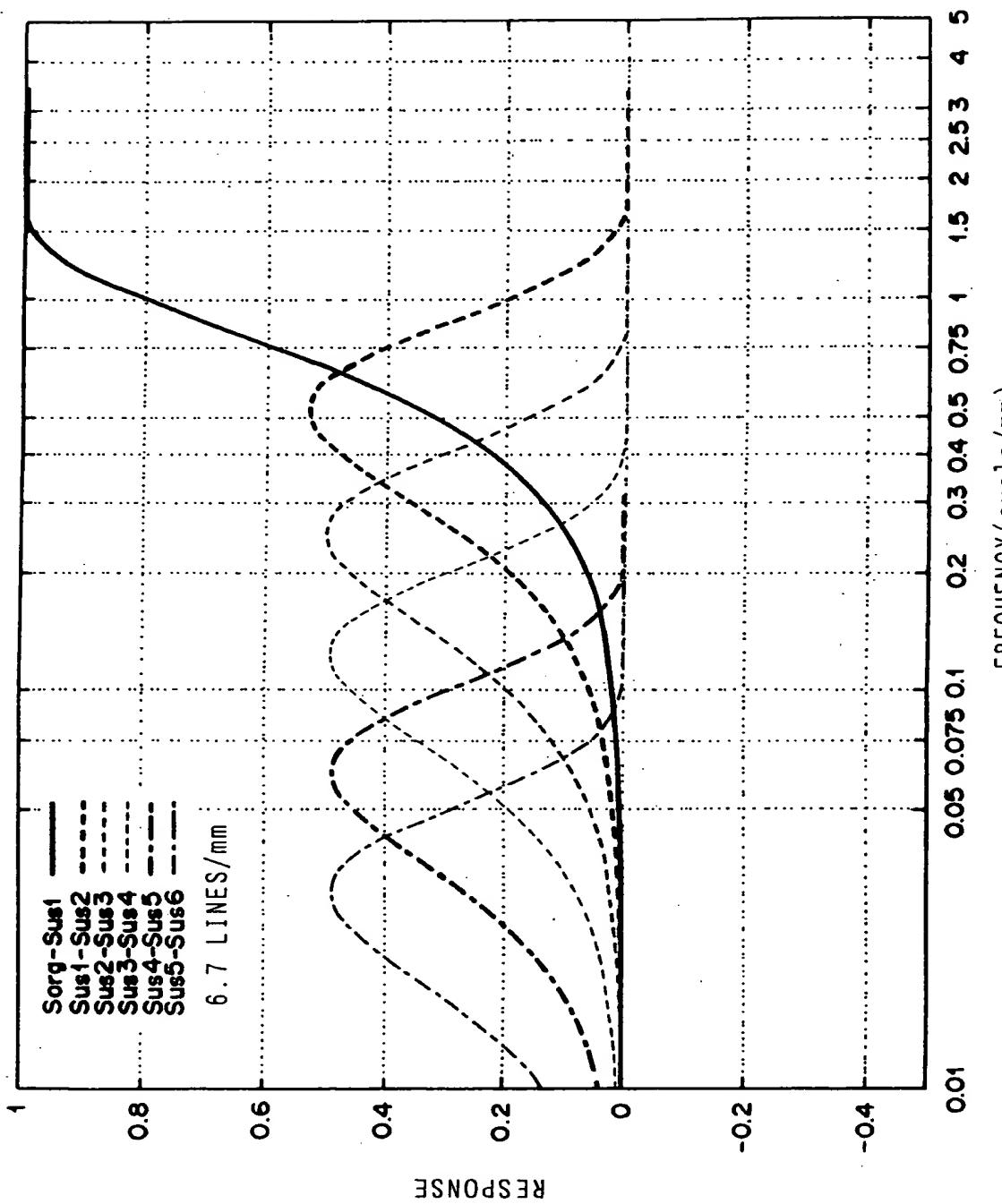
0.1	0.5	0.8	0.5	0.1
-----	-----	-----	-----	-----

# FIG.6



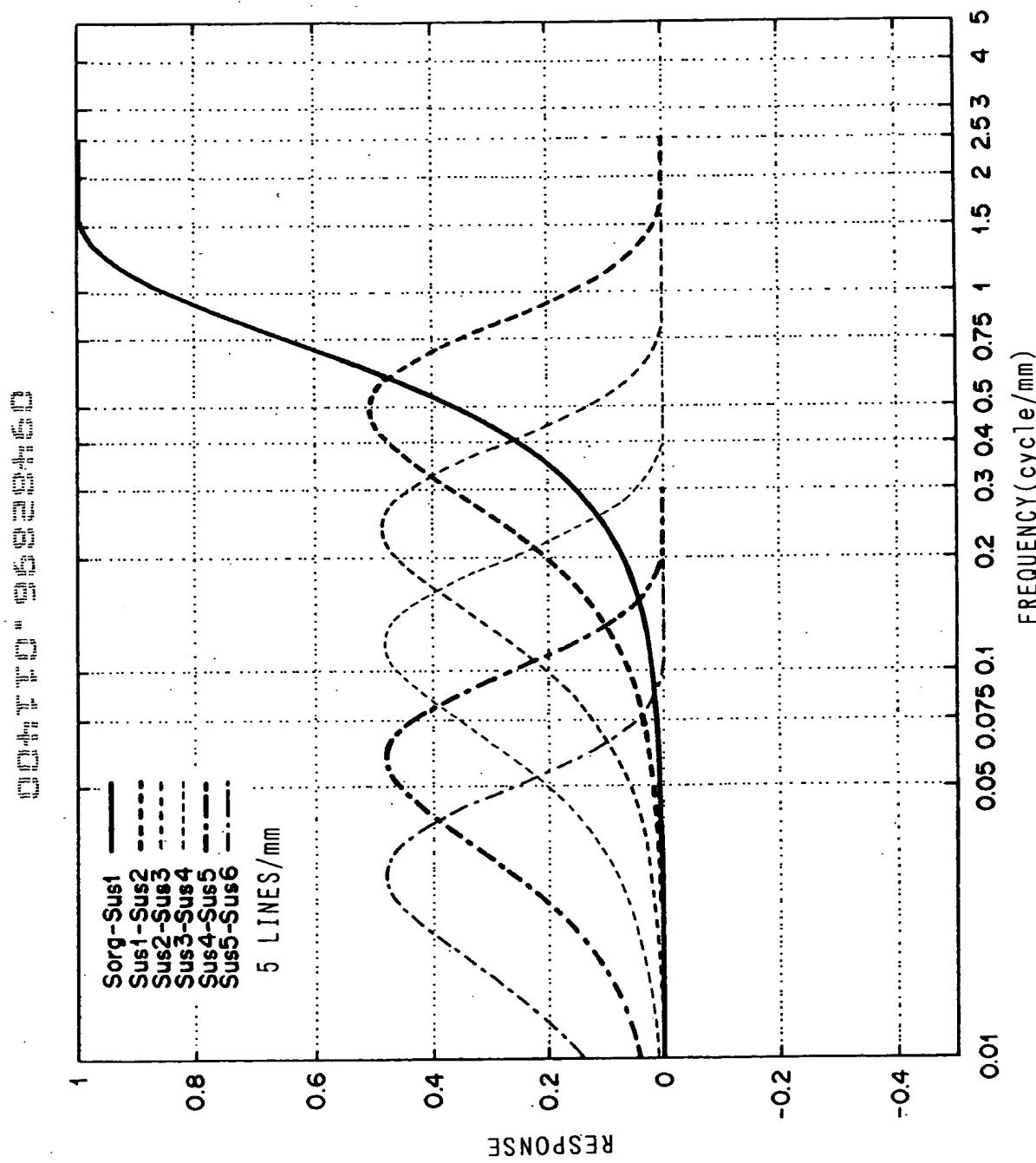
F I G. 7



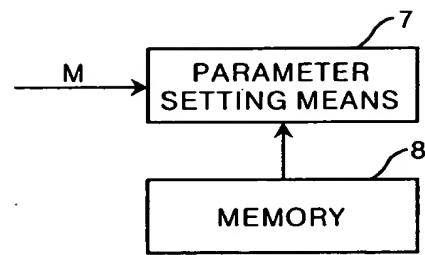


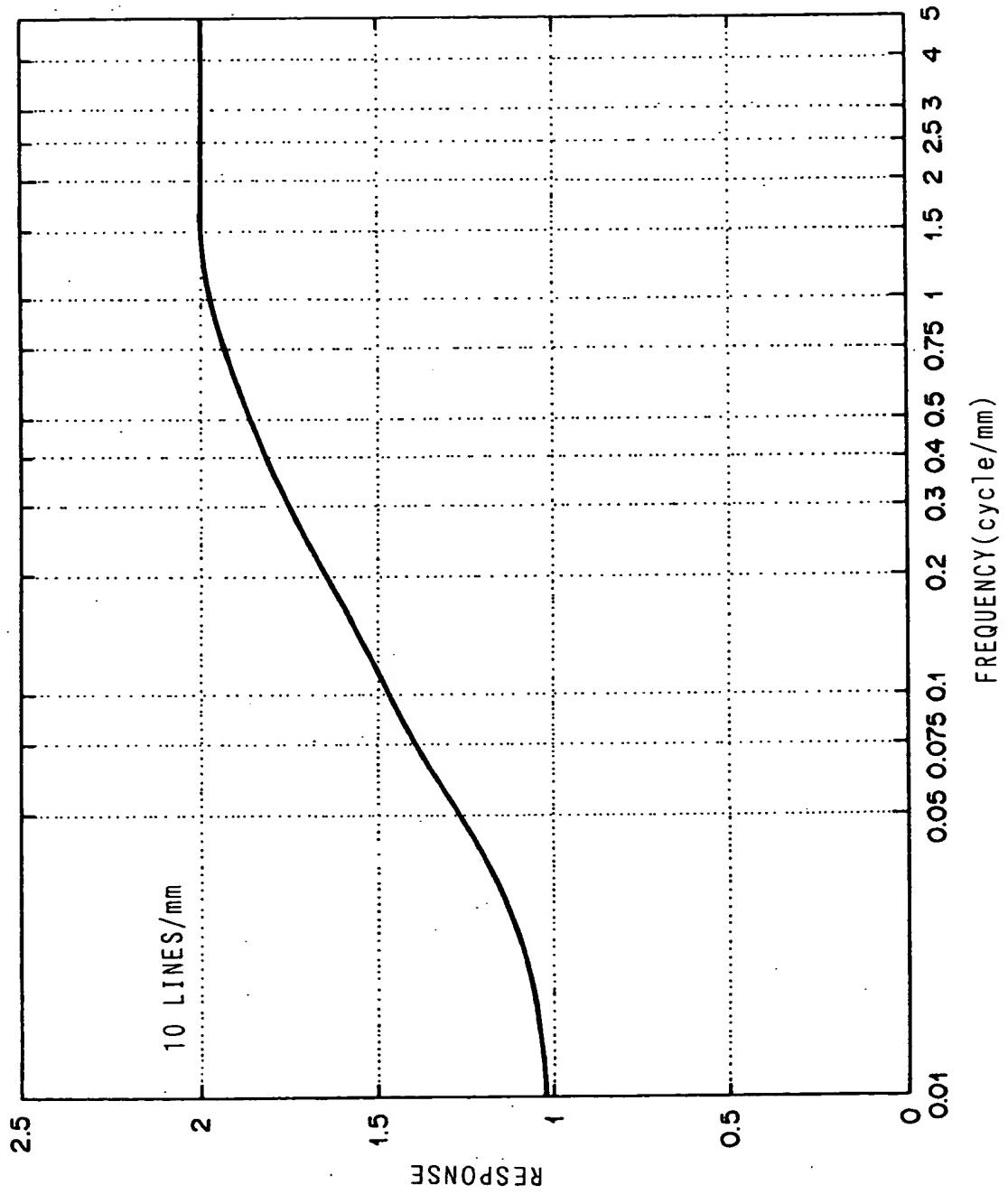
8.  
G.  
—  
E.

F I G . 9



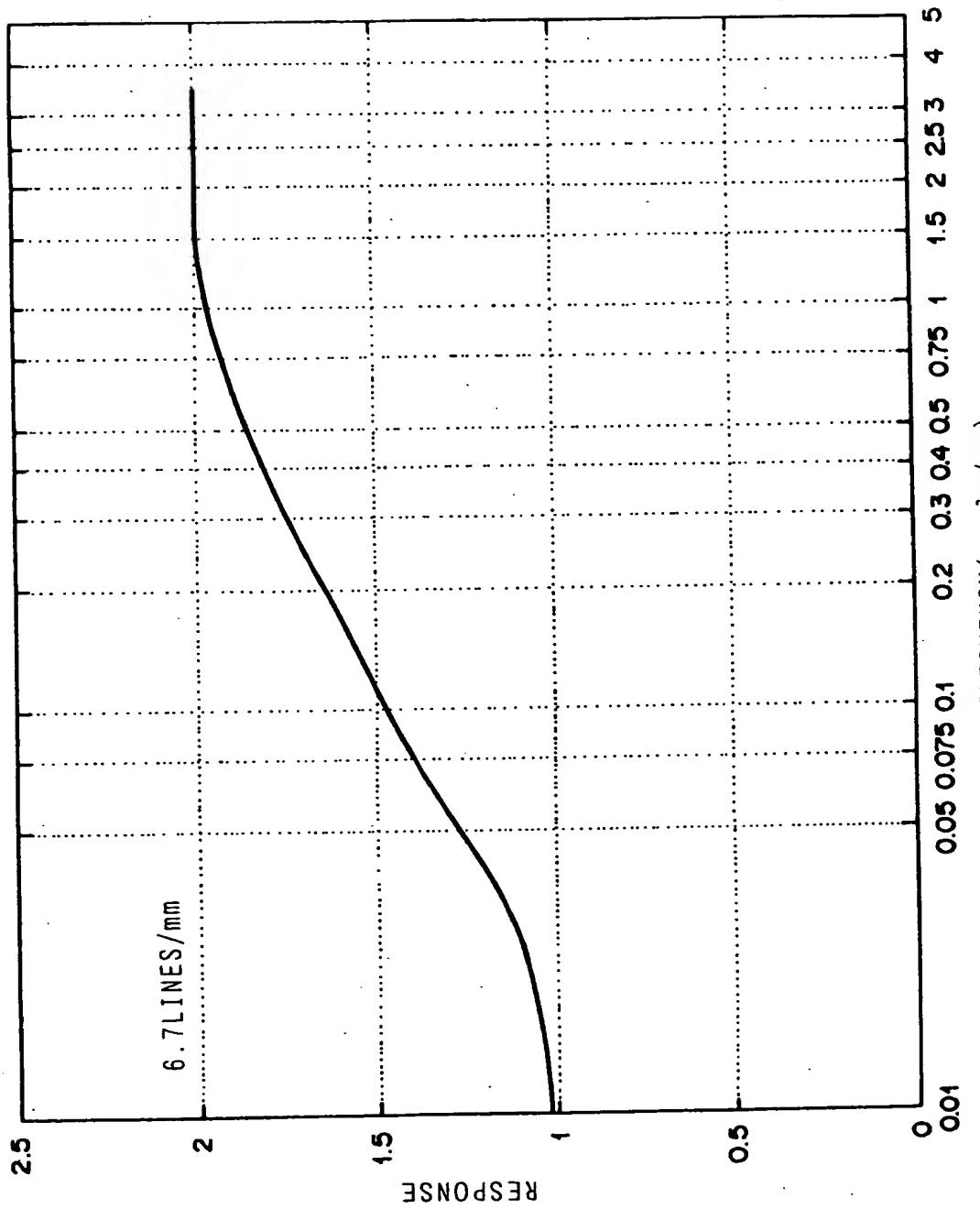
# FIG.10



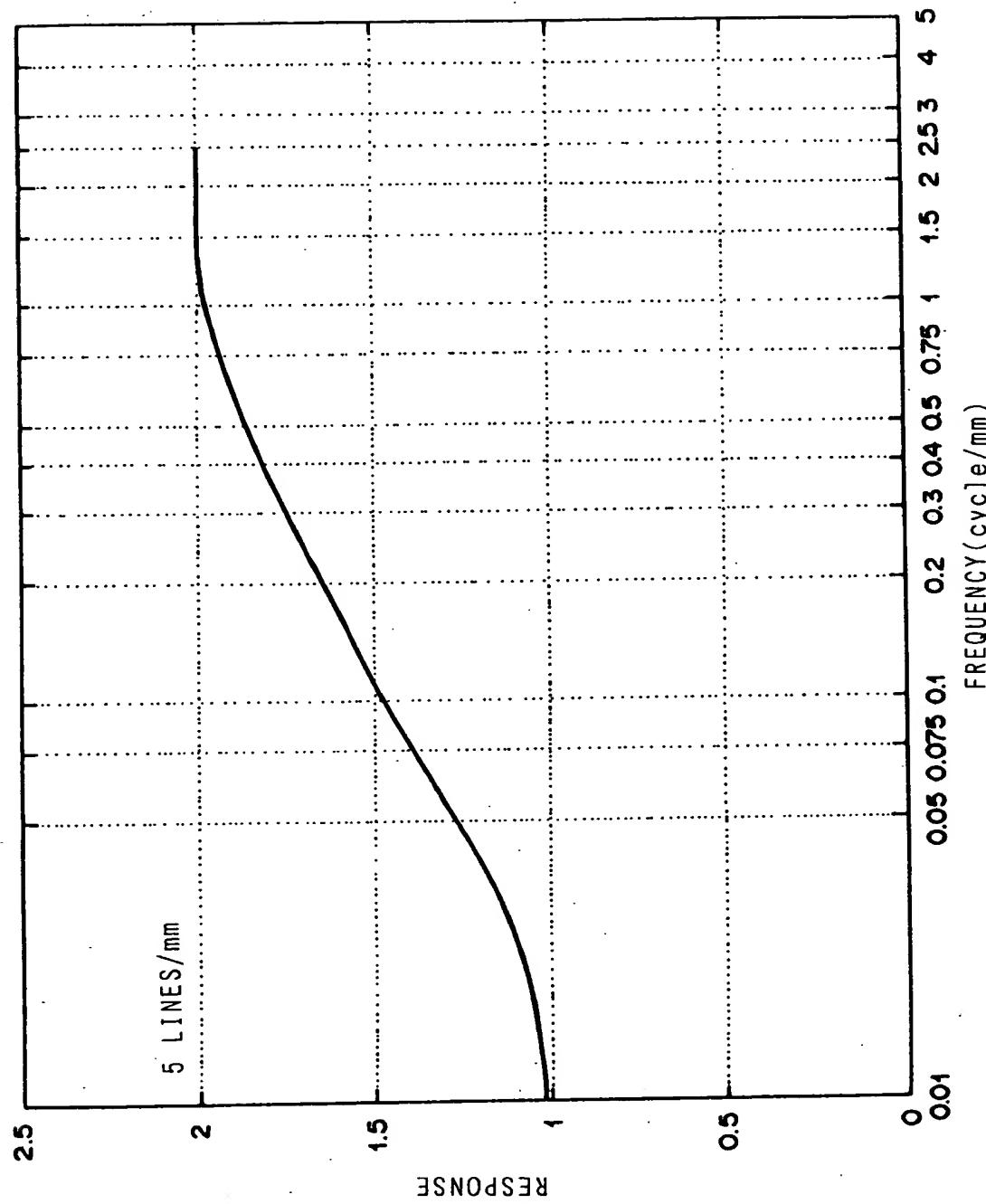


E - G. 1

0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0

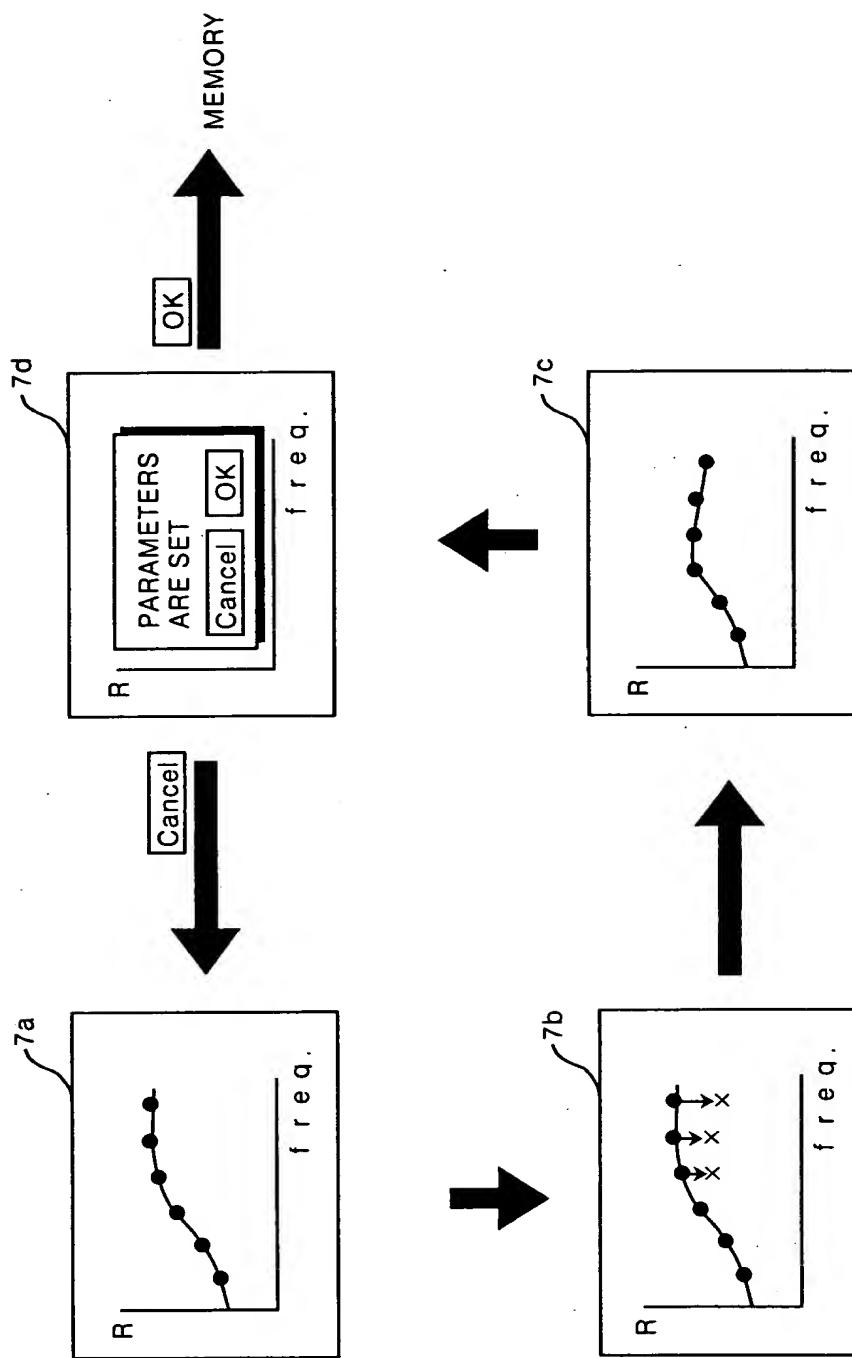


F 1 G . 12

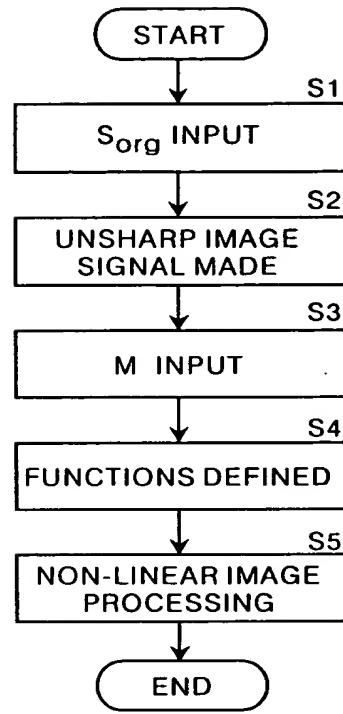


F I G . 13

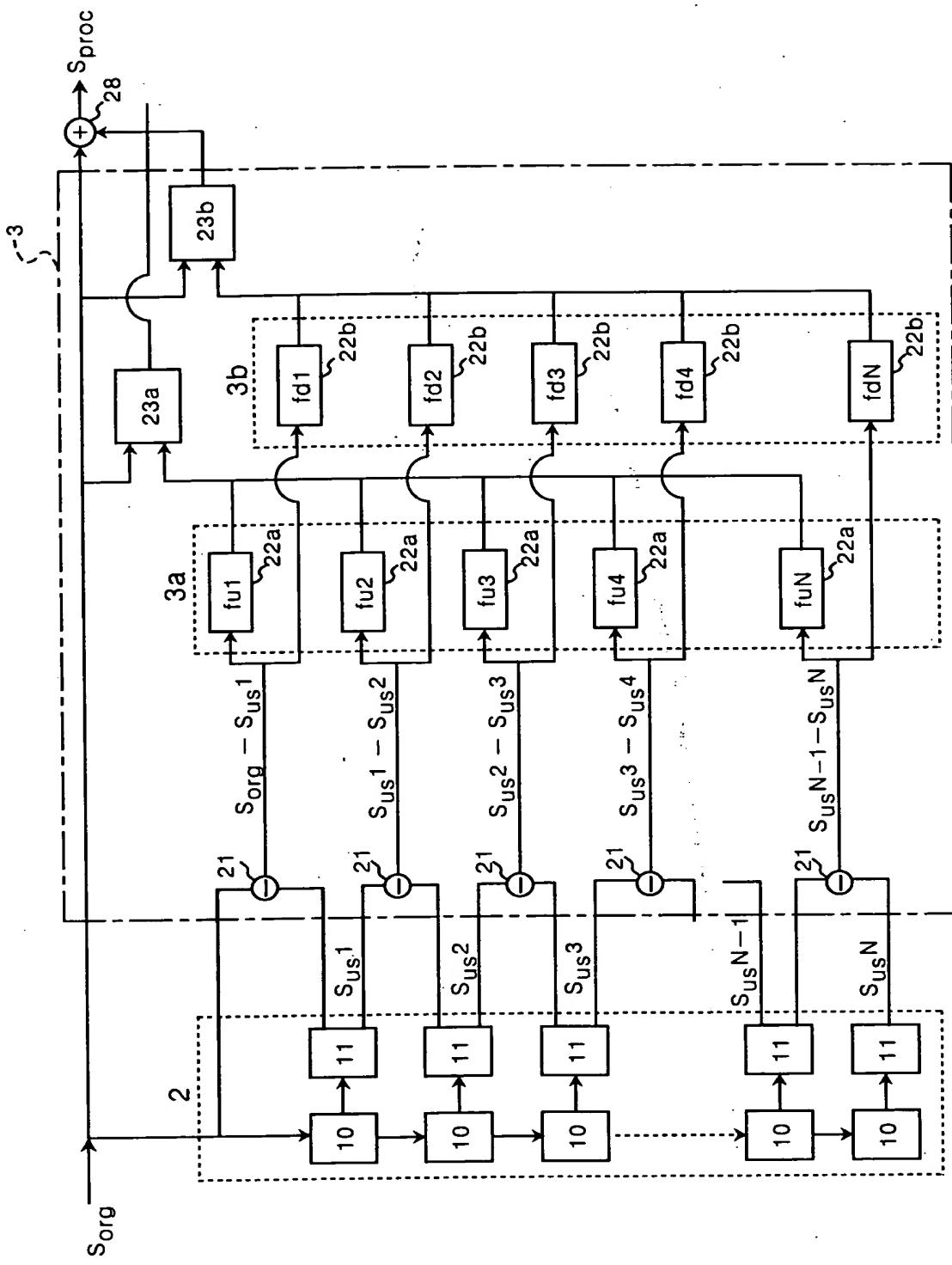
FIG. 14



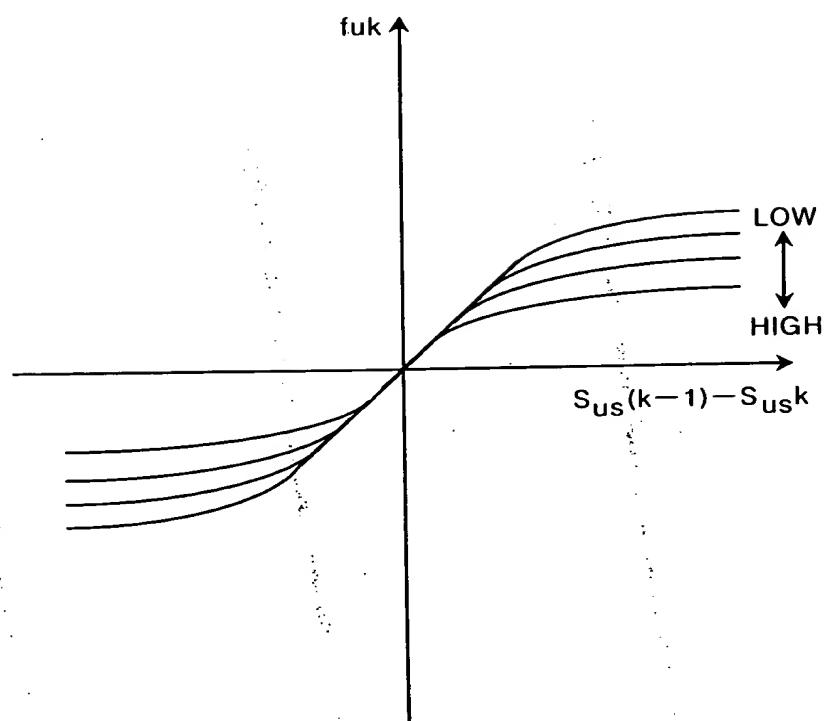
# FIG.15



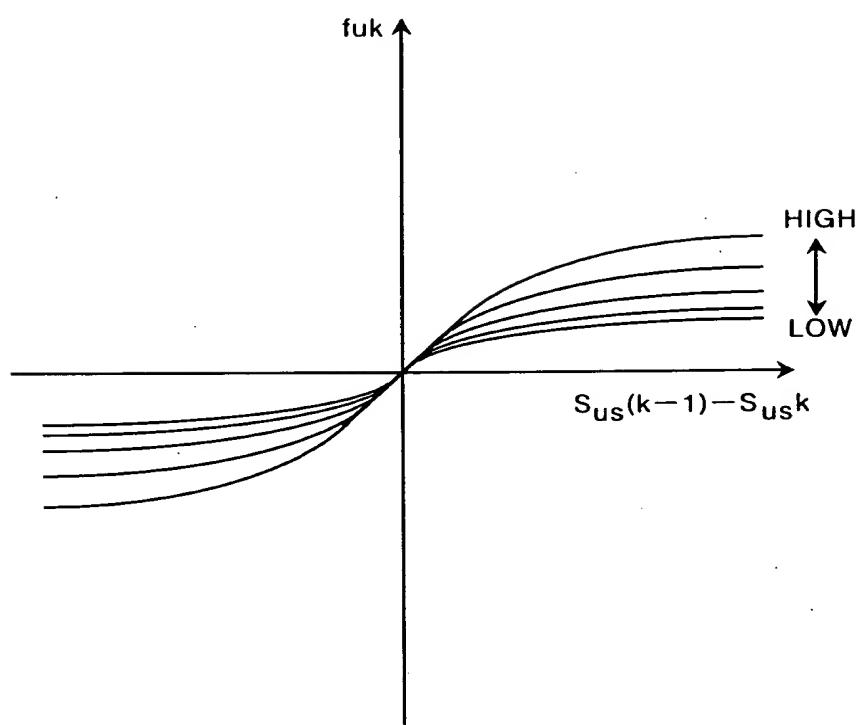
# FIG. 16



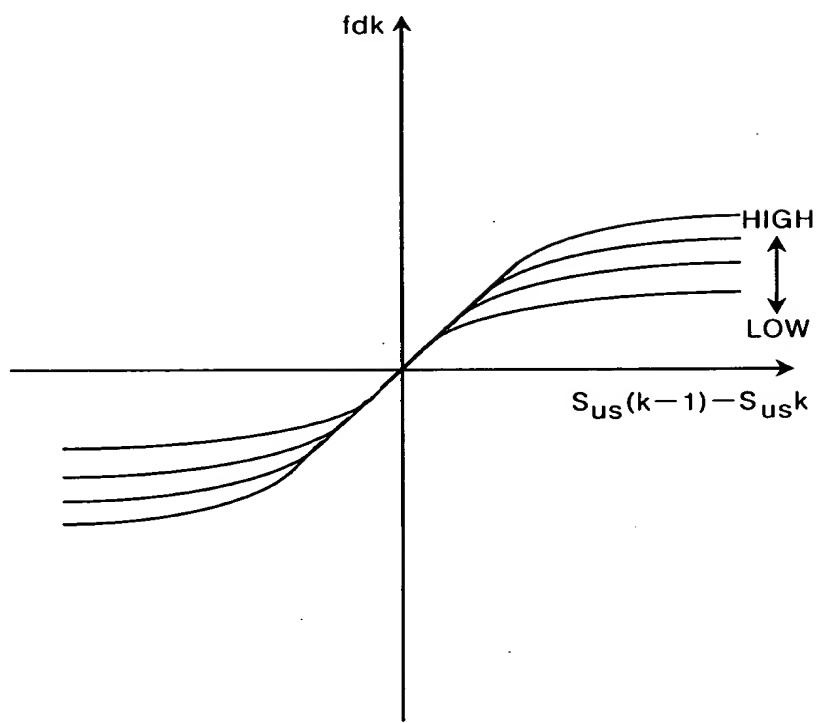
# FIG.17

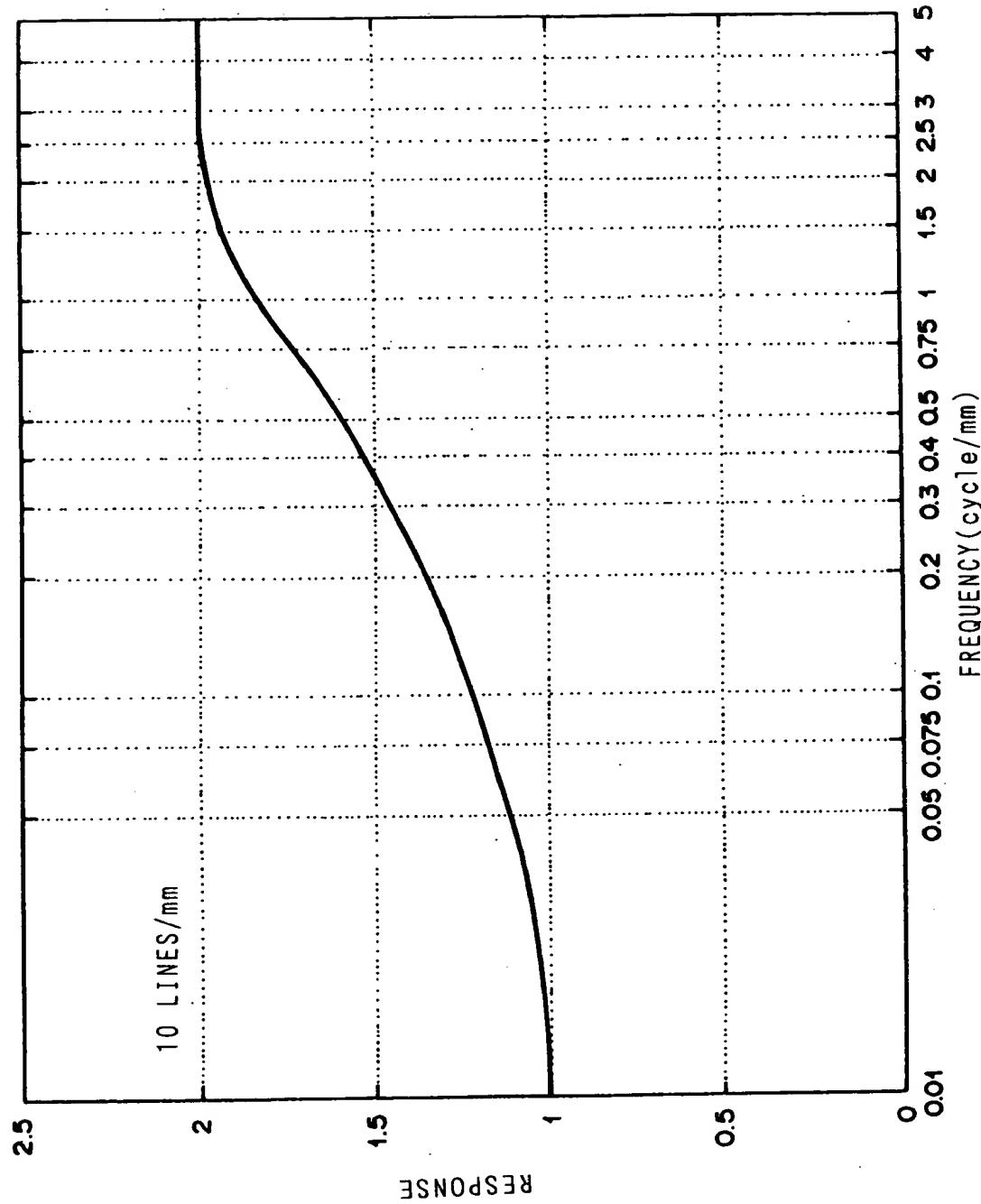


# FIG. 18



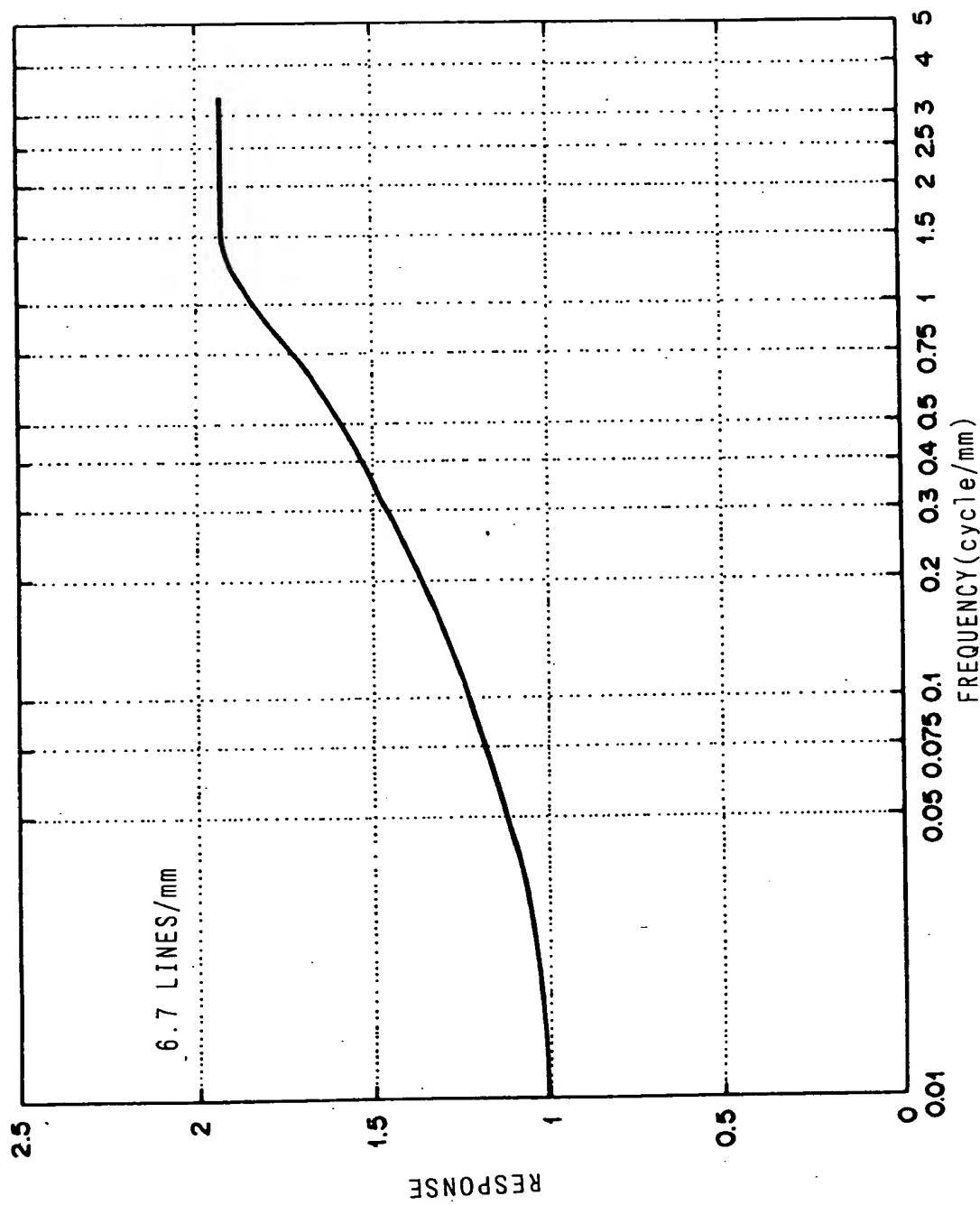
# FIG. 19





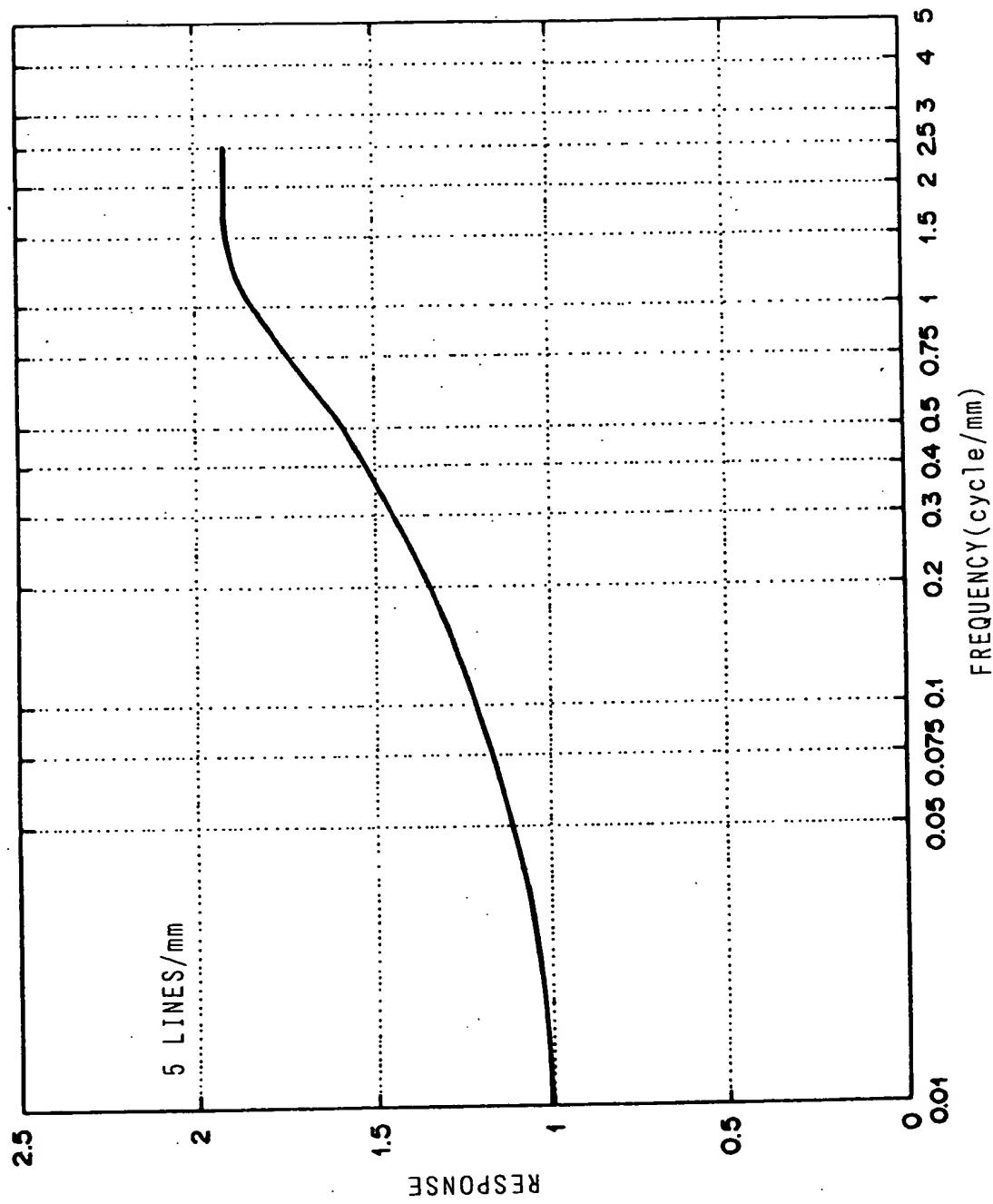
F I G . 20

0.99 0.98 0.97 0.96 0.95 0.94



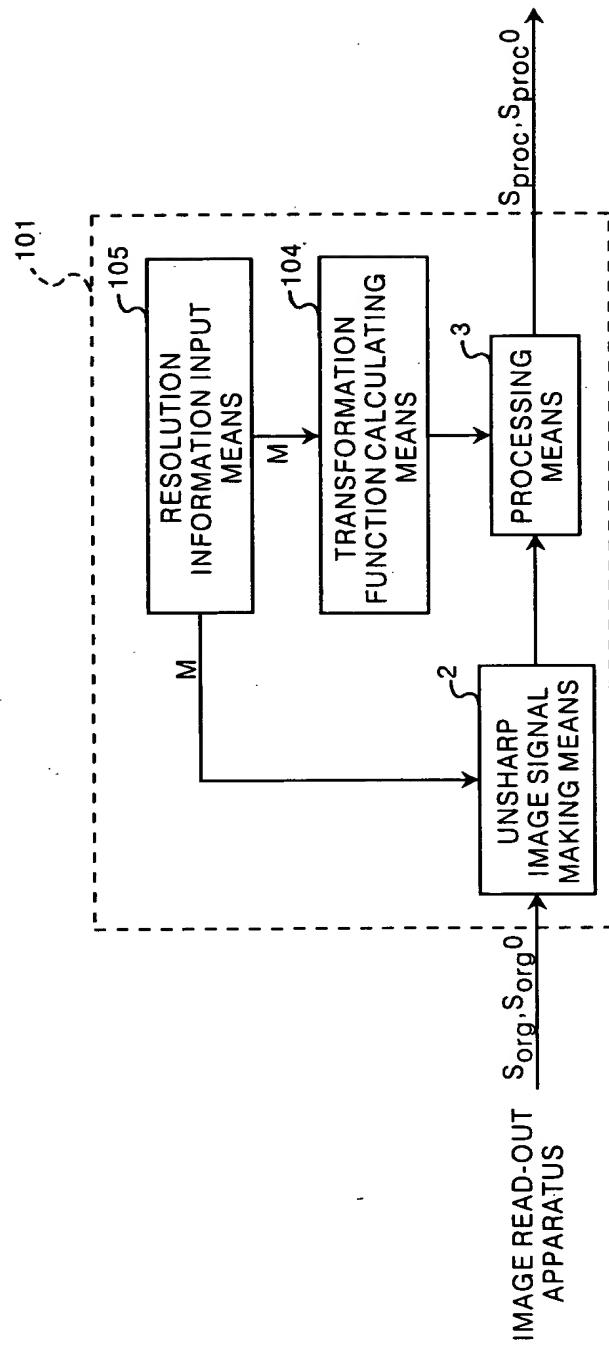
F I G . 21

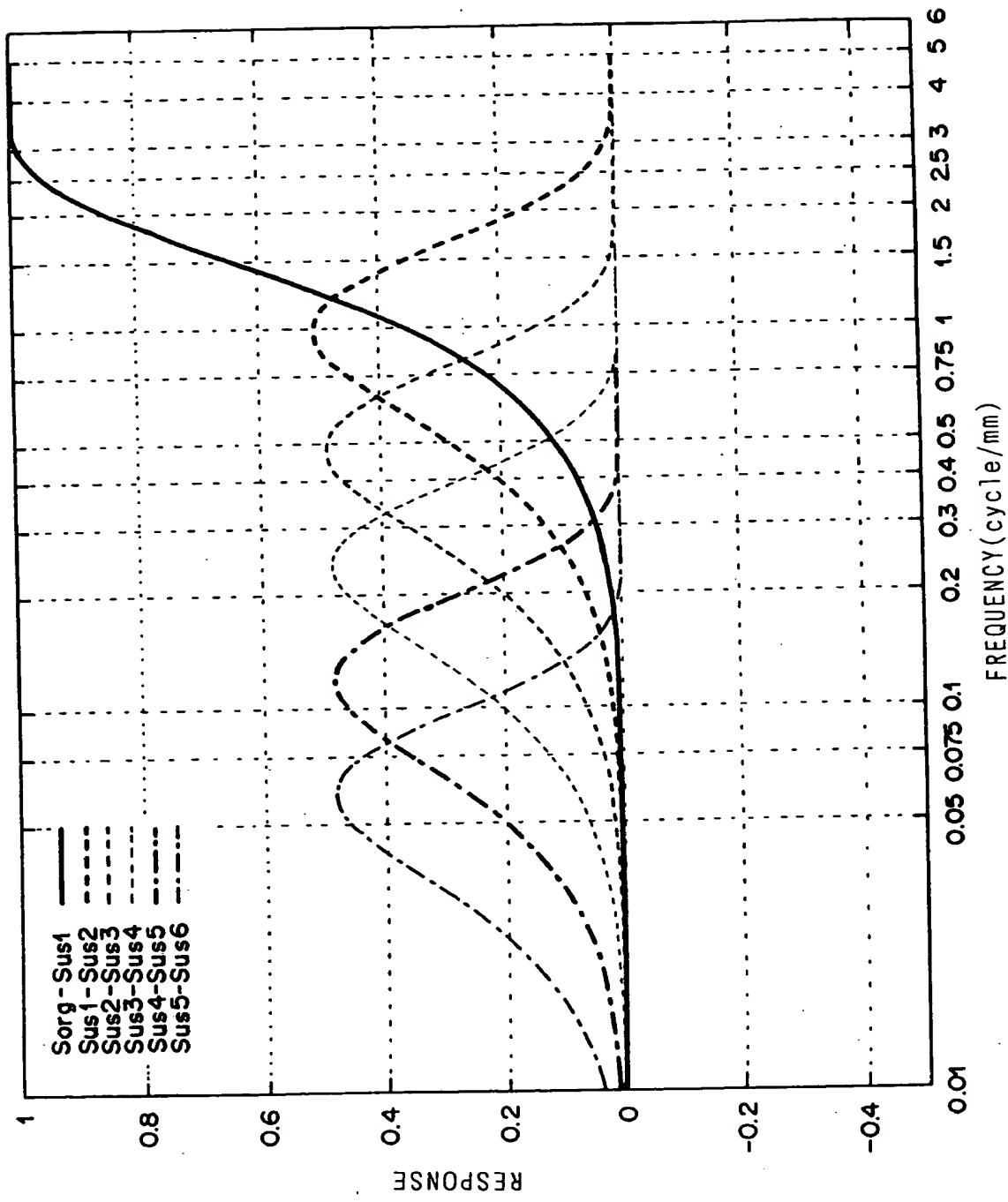
00407200 00500000 00400000 00300000 00200000 00100000



F | G . 22

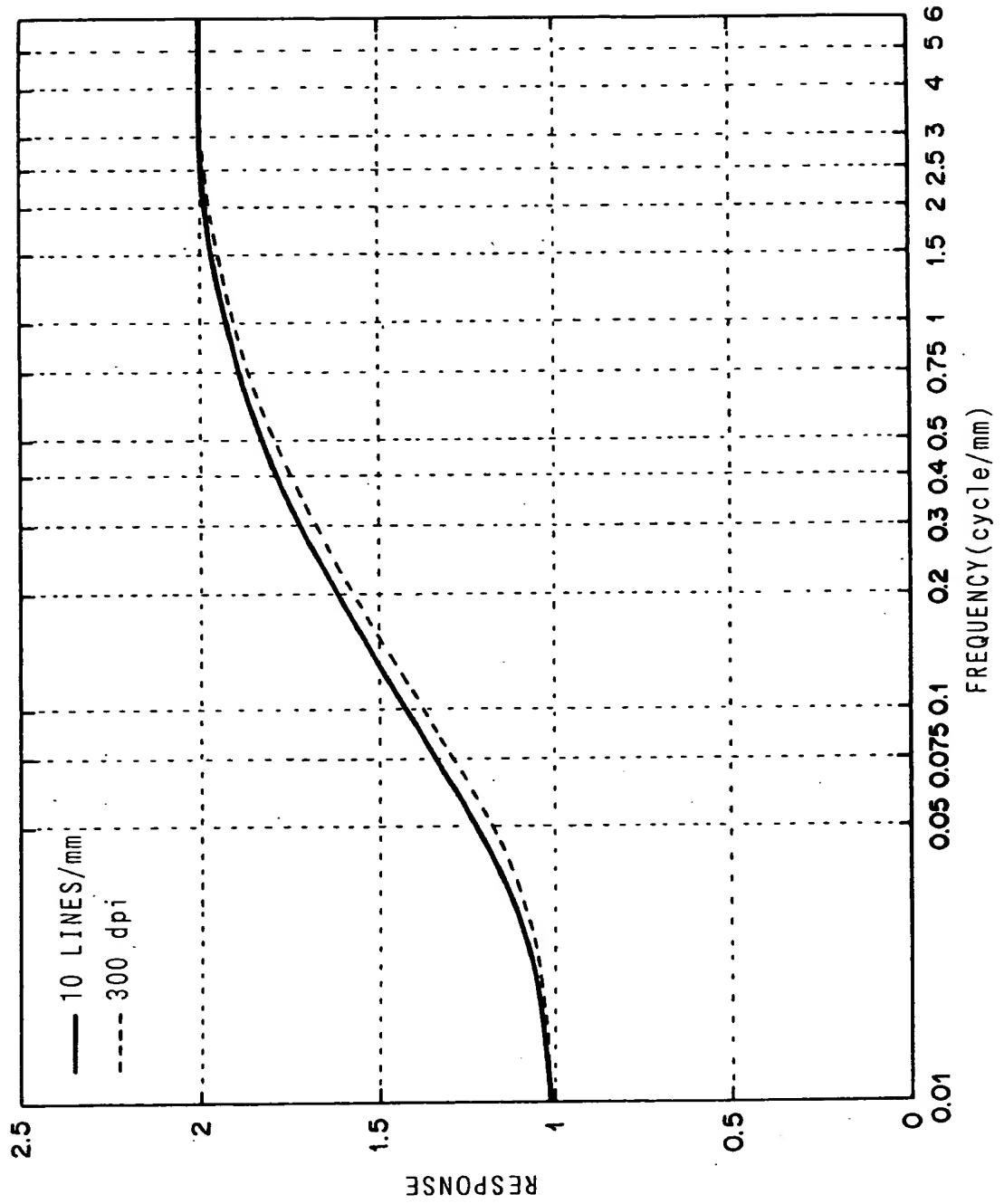
# FIG. 23



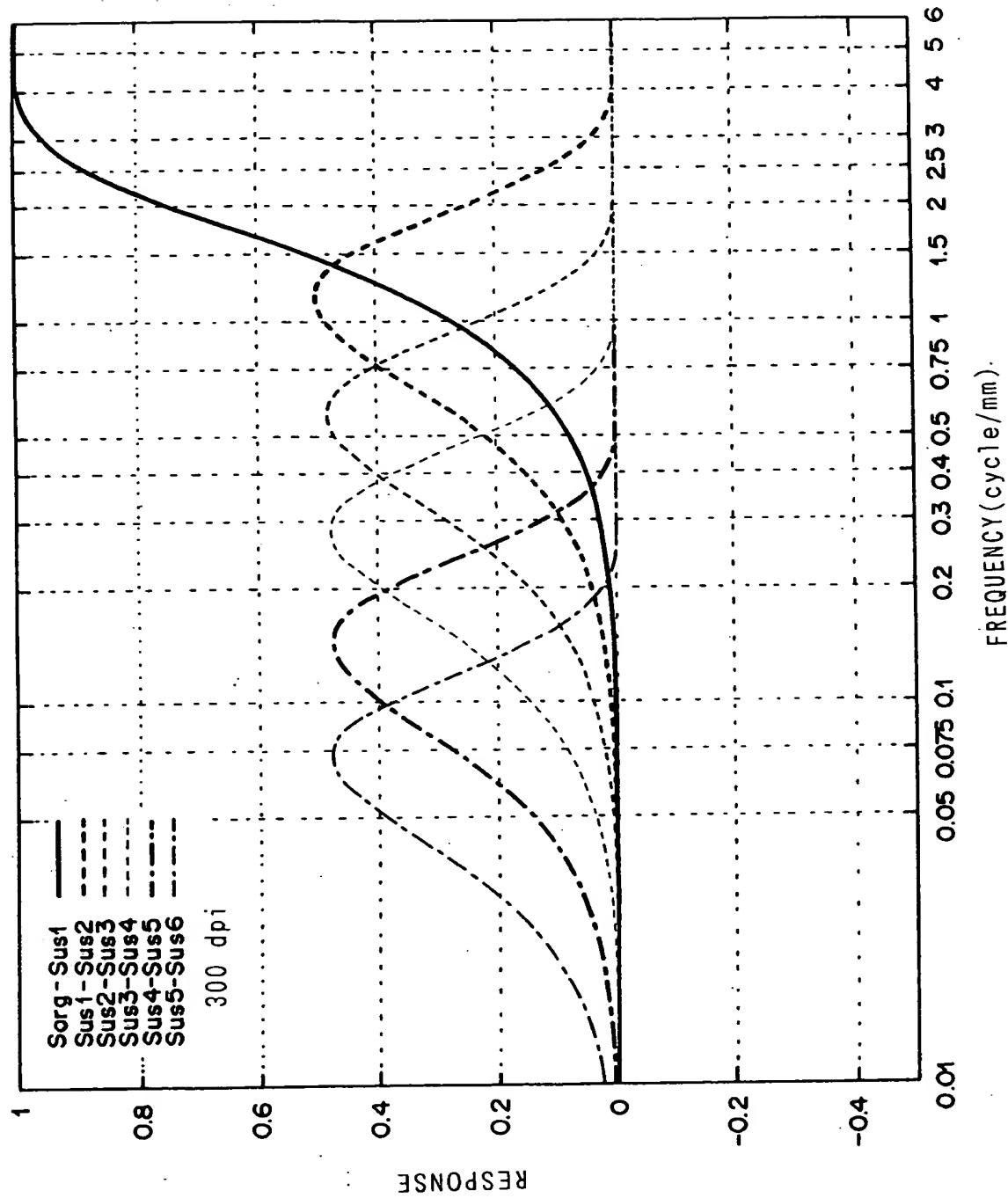


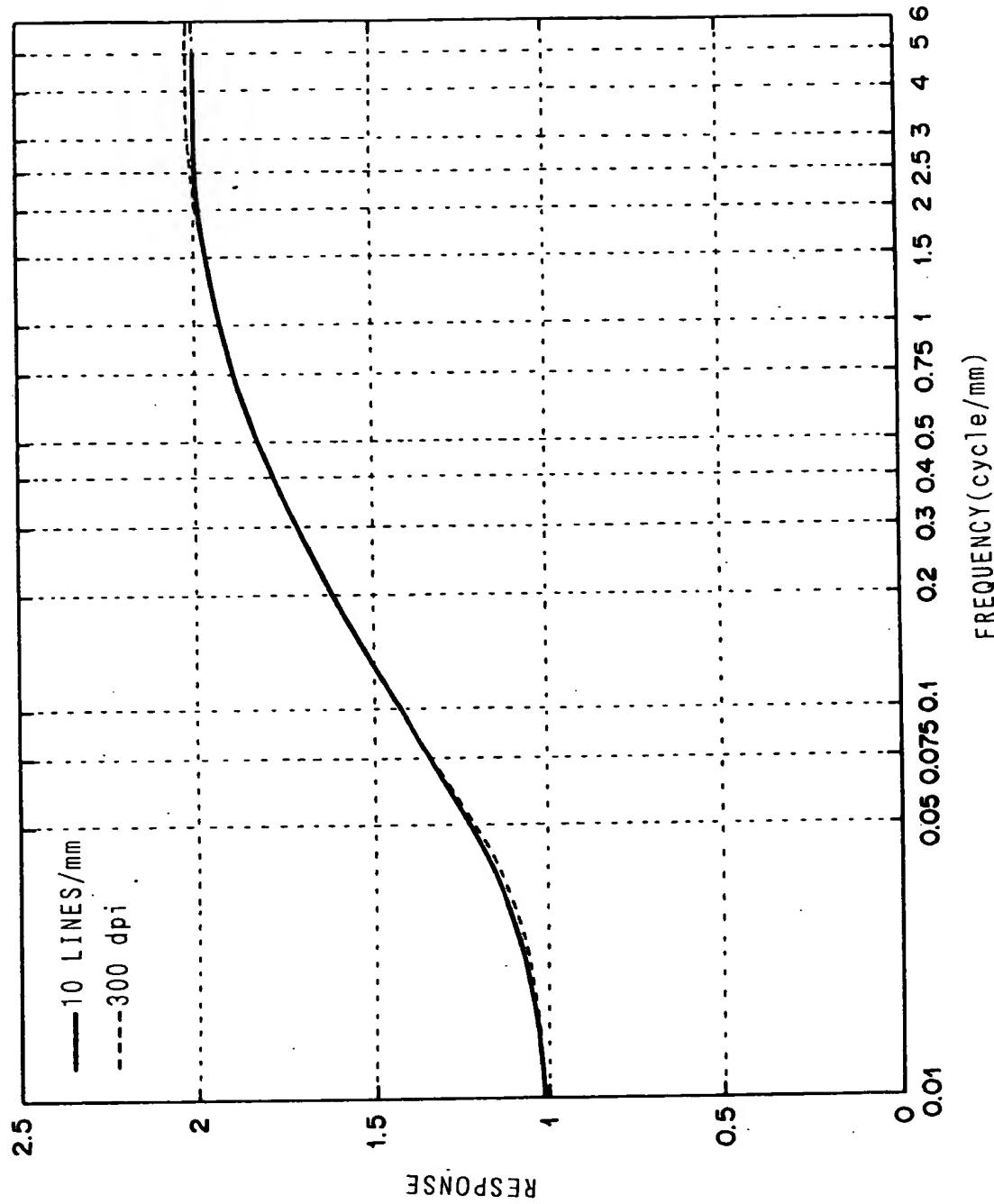
F - G. 24

F I G . 25



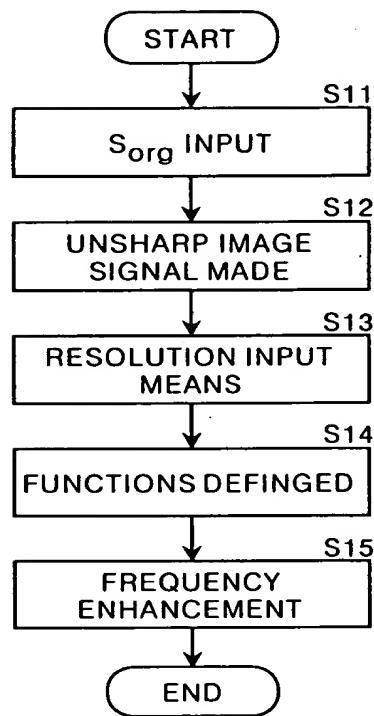
F I G . 26



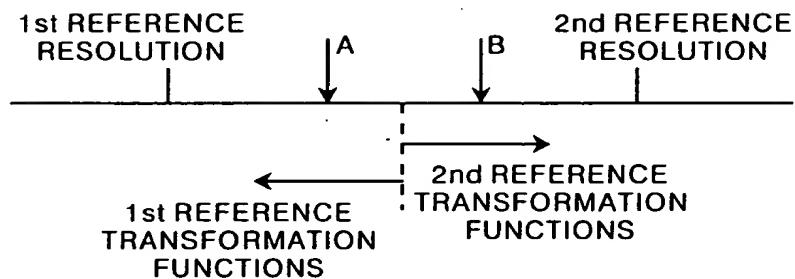


— G. 27

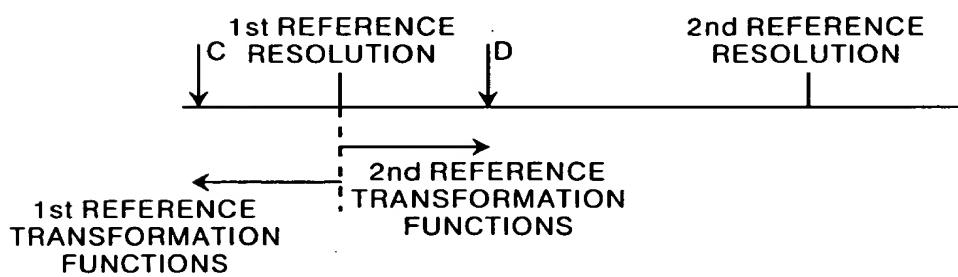
# FIG.28



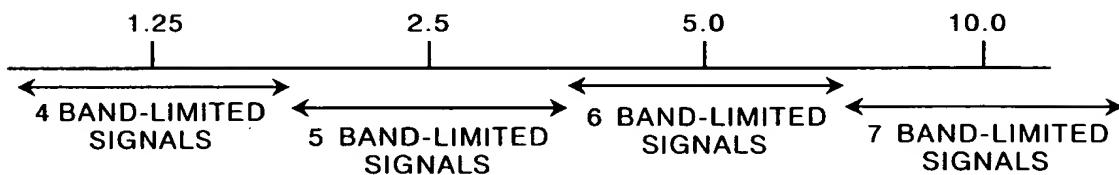
# FIG.29A



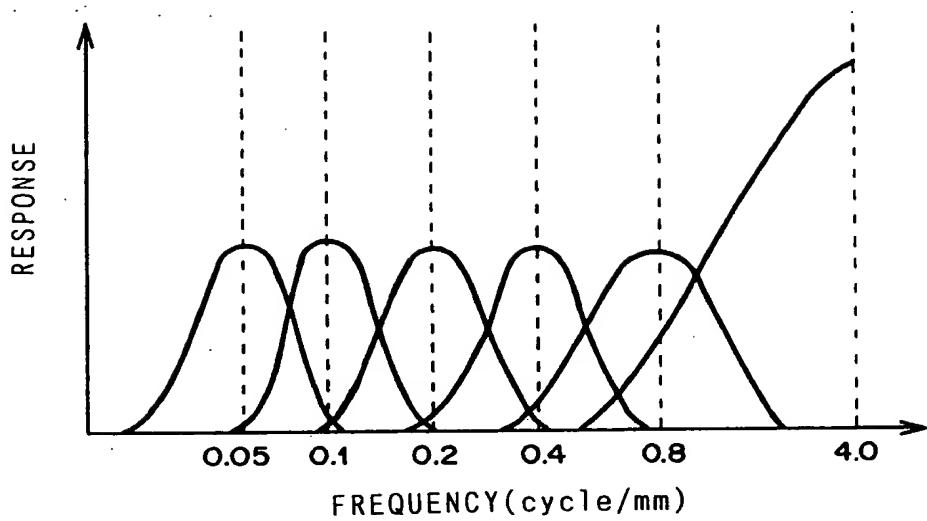
# FIG.29B



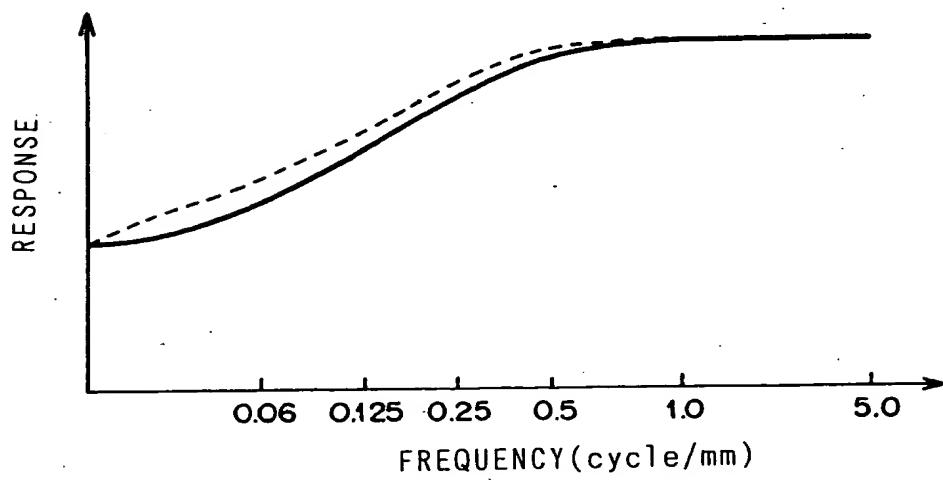
# FIG.30



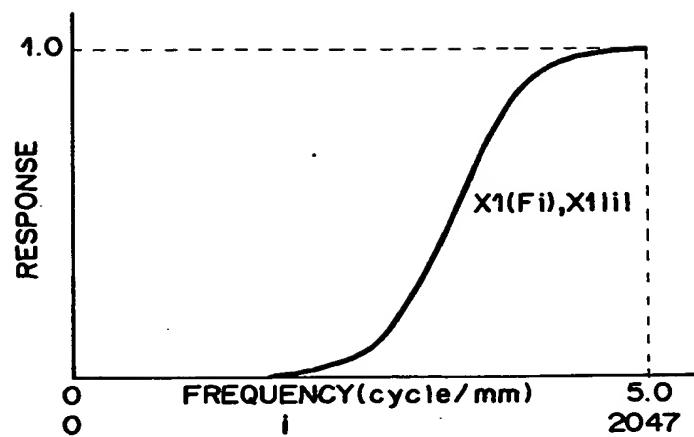
**F I G . 31**



**F I G . 32**



F I G . 33



F I G . 34

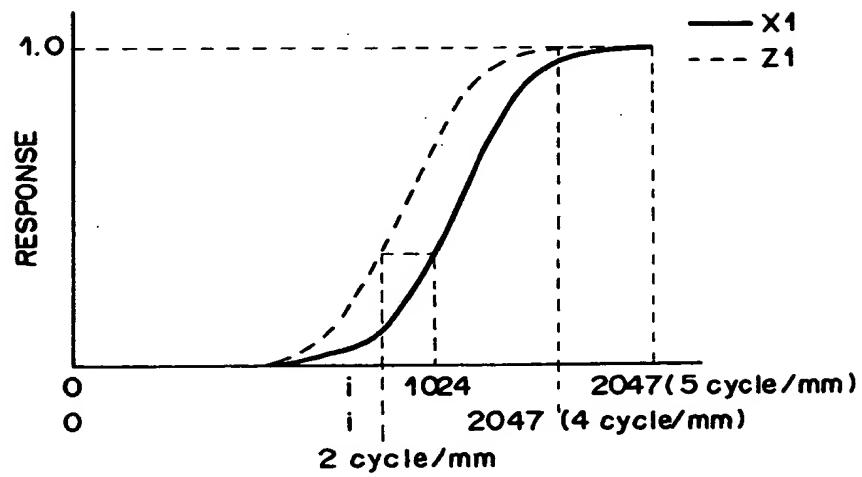
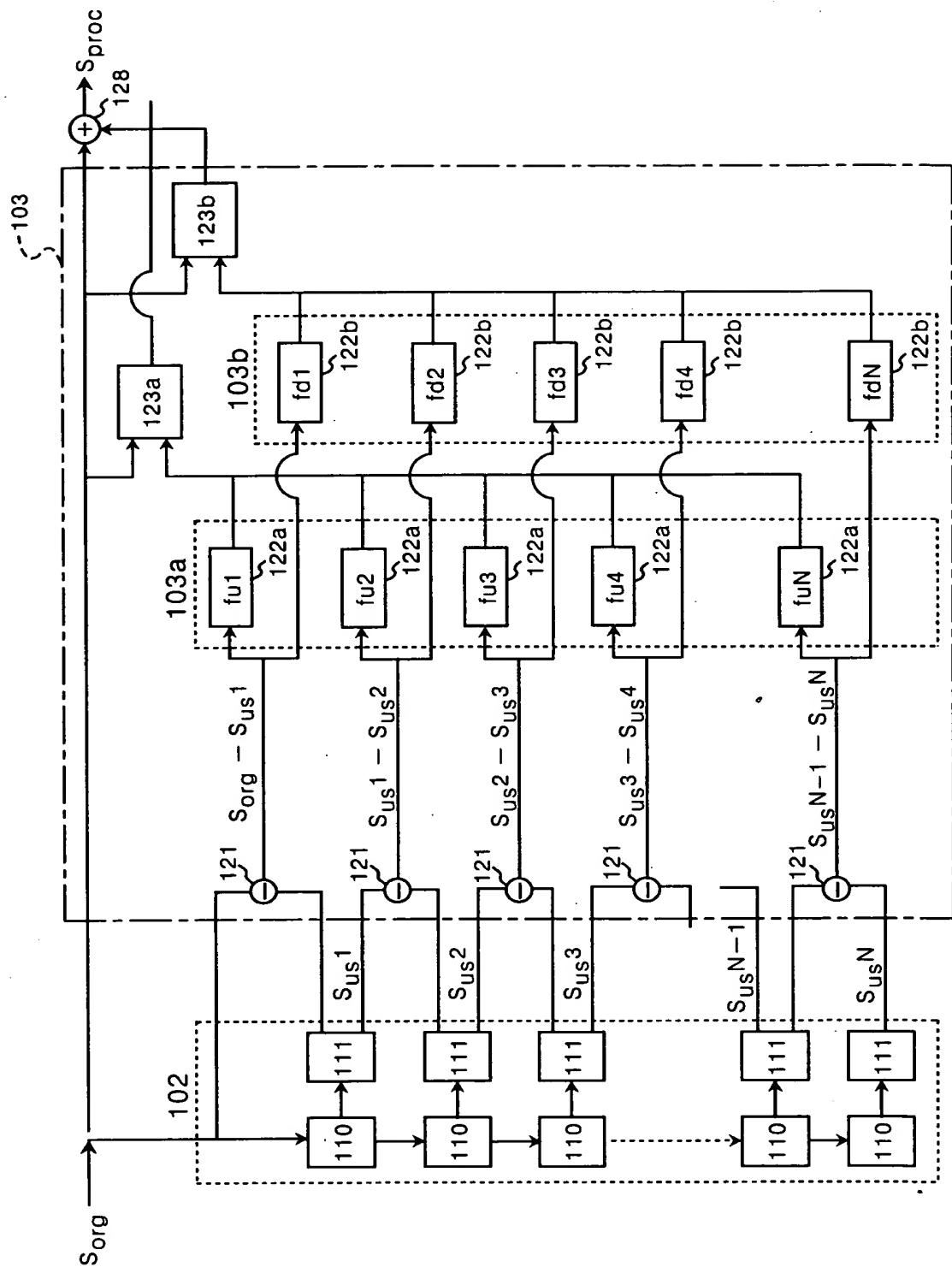
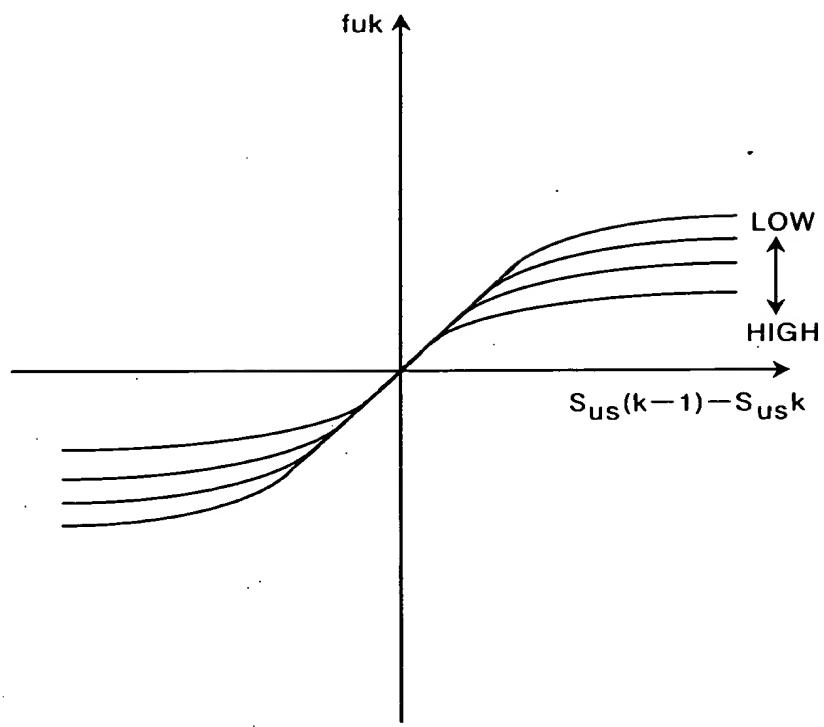


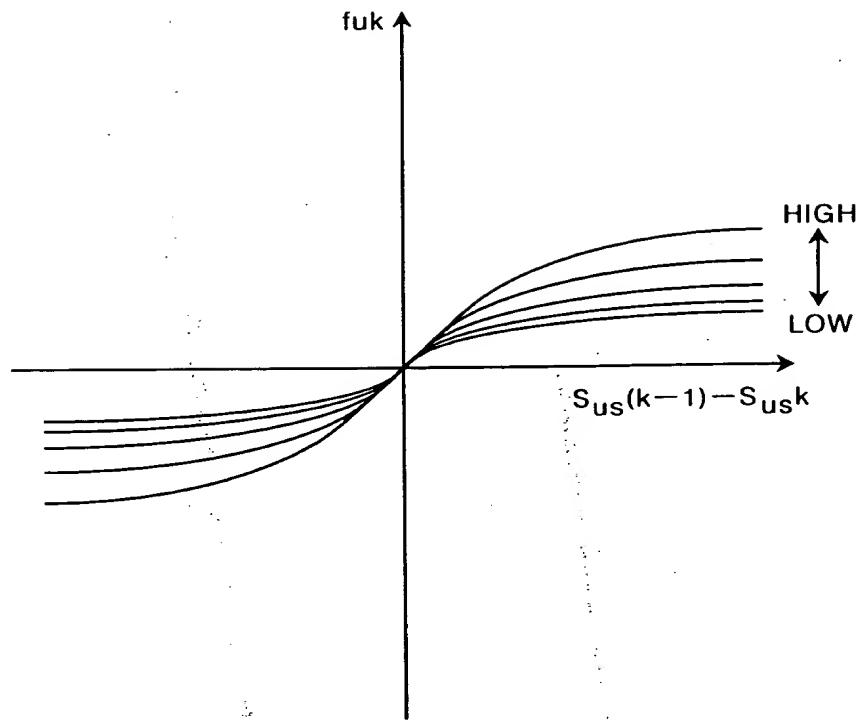
FIG. 35



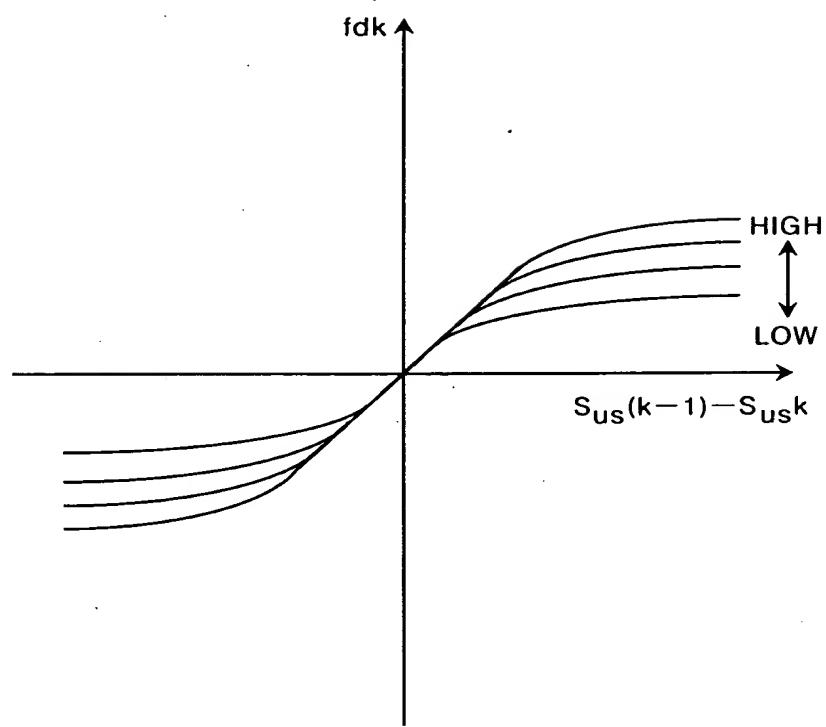
# FIG.36



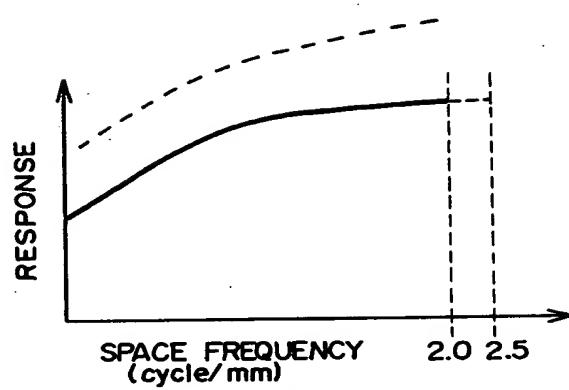
# FIG. 37



# FIG. 38



**F I G . 39A**



**F I G . 39B**

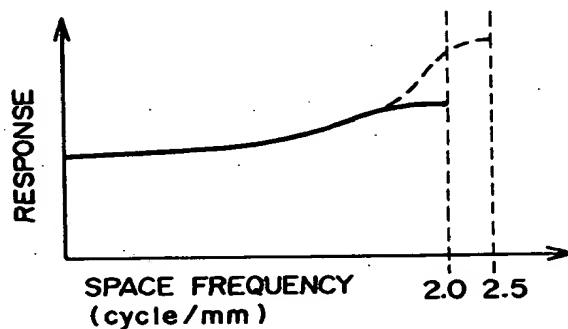
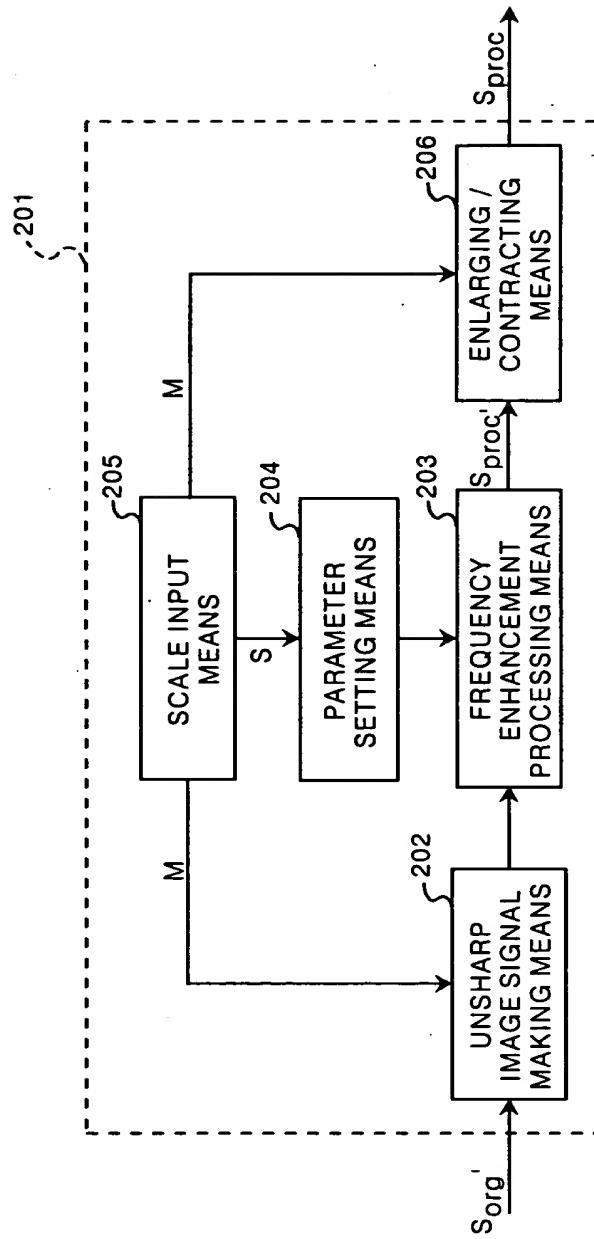


FIG. 40



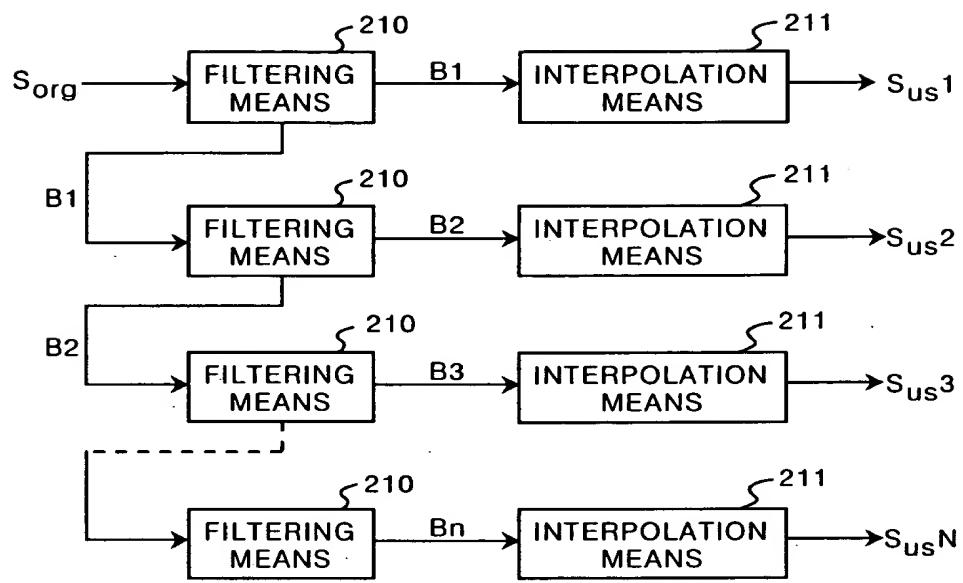
LL1	HL0
LH0	HH0

LL2	HL1
LH1	HH1

LL2
HH1, HL1, LH1
HH0, HL0, LH0

FIG.41A FIG.41B FIG.41C

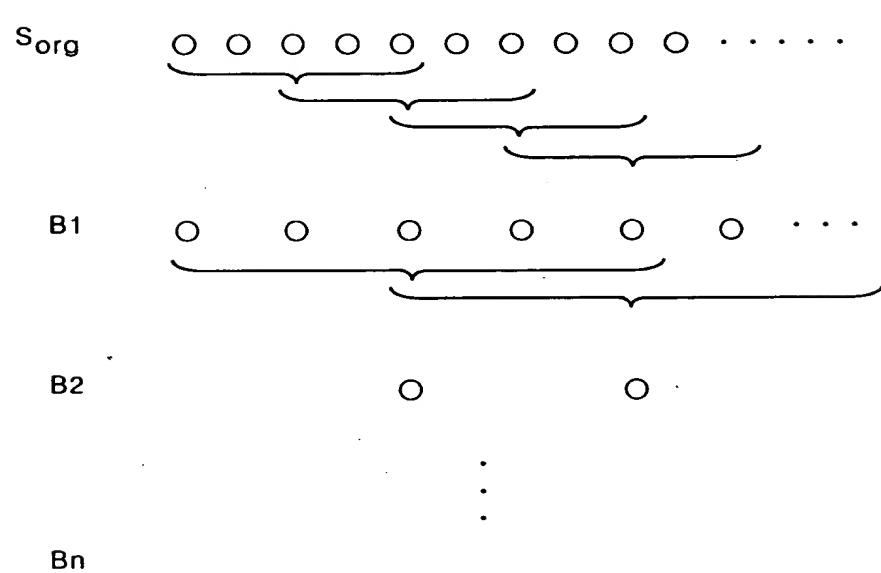
# FIG.42



# FIG.43

0.05	0.25	0.4	0.25	0.05
------	------	-----	------	------

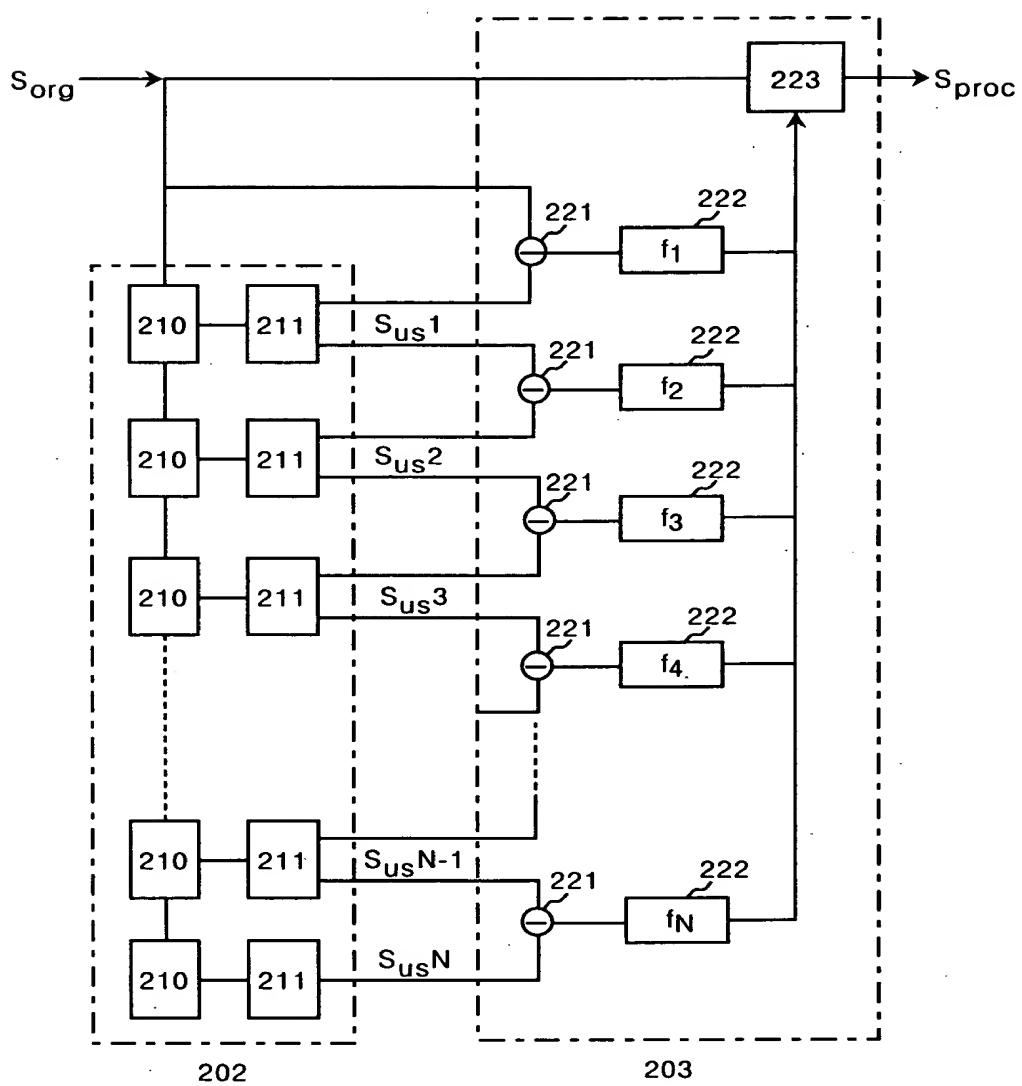
# FIG.44



# FIG.45

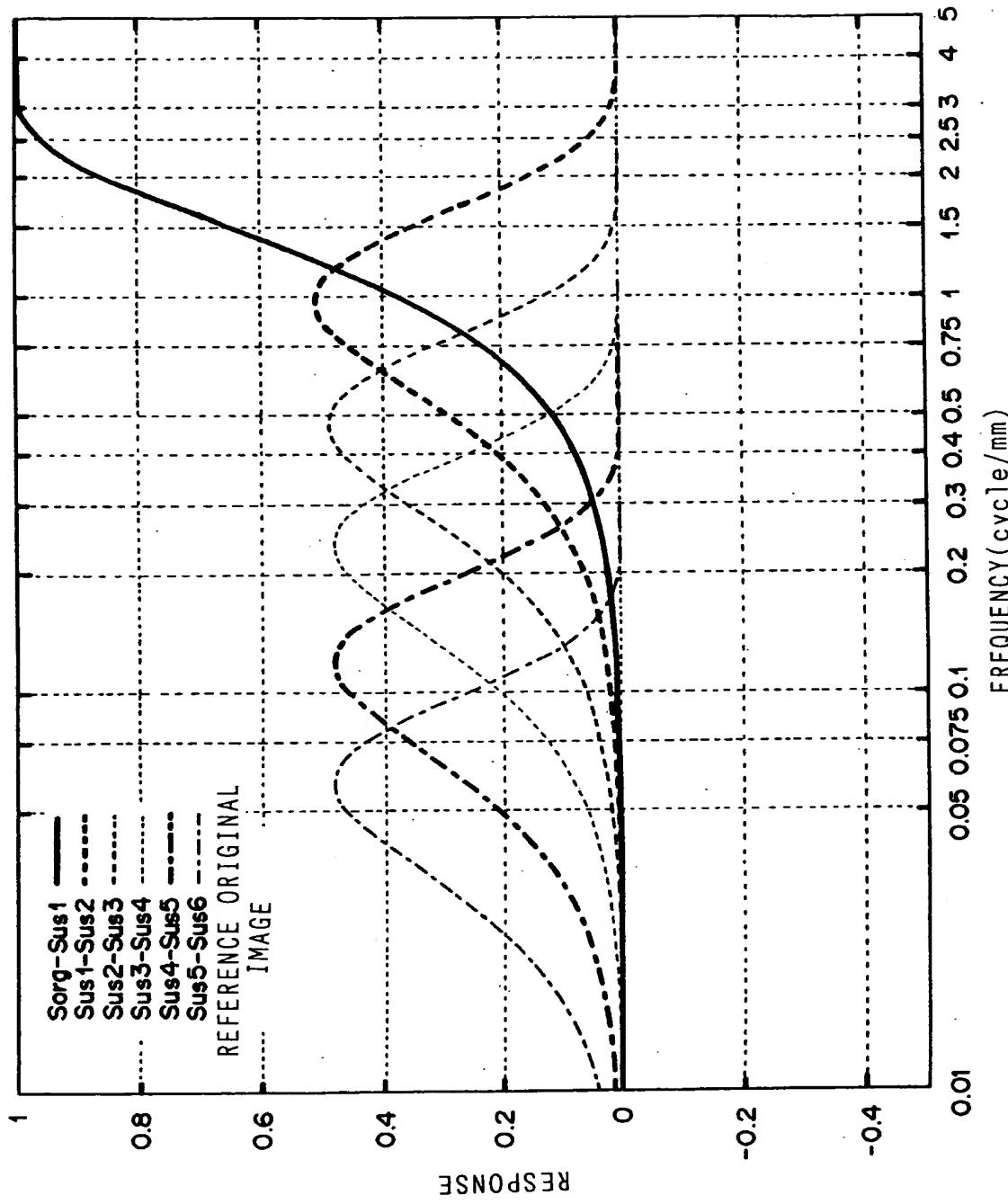
0.1	0.5	0.8	0.5	0.1
-----	-----	-----	-----	-----

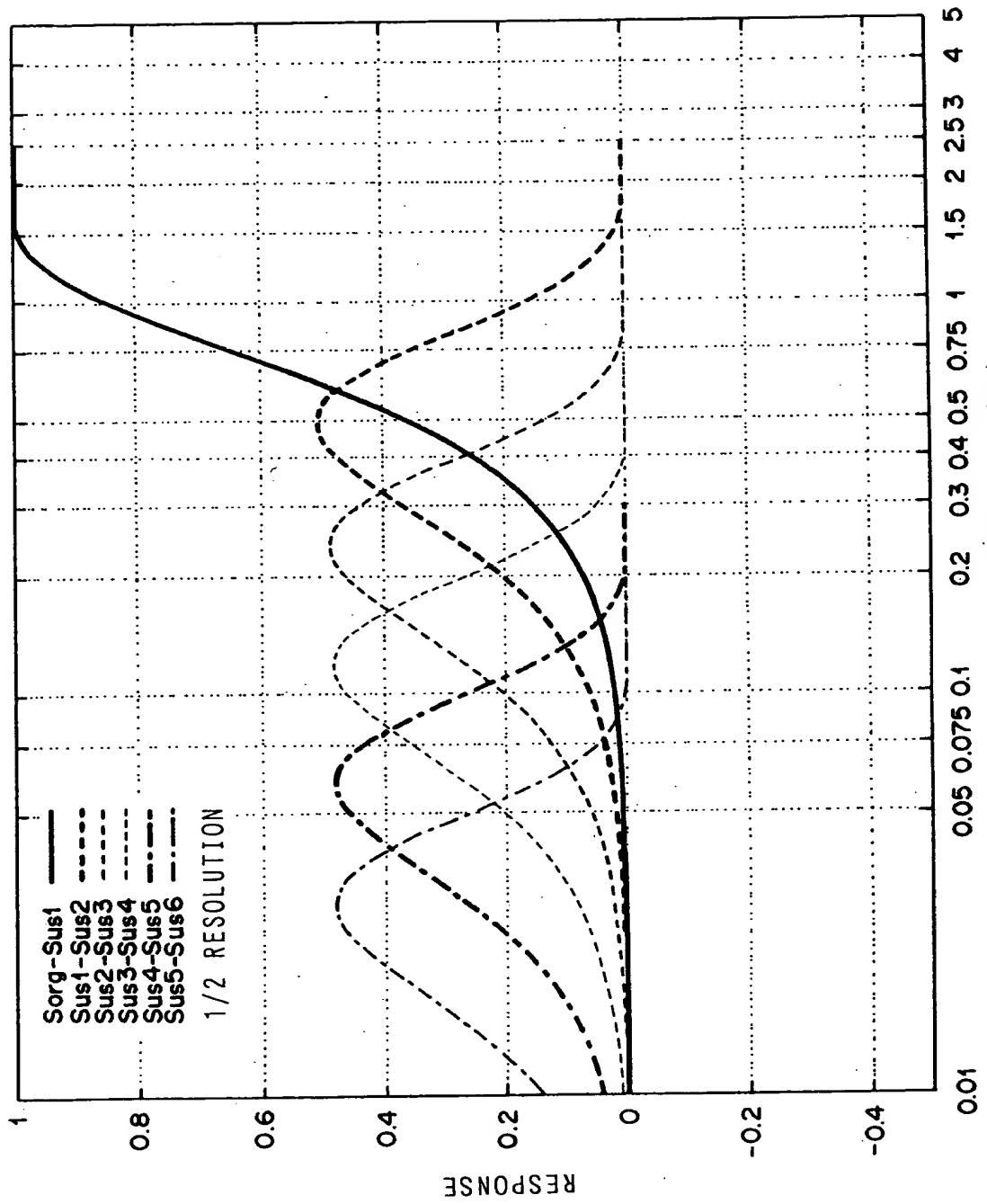
# FIG.46



F | G . 47

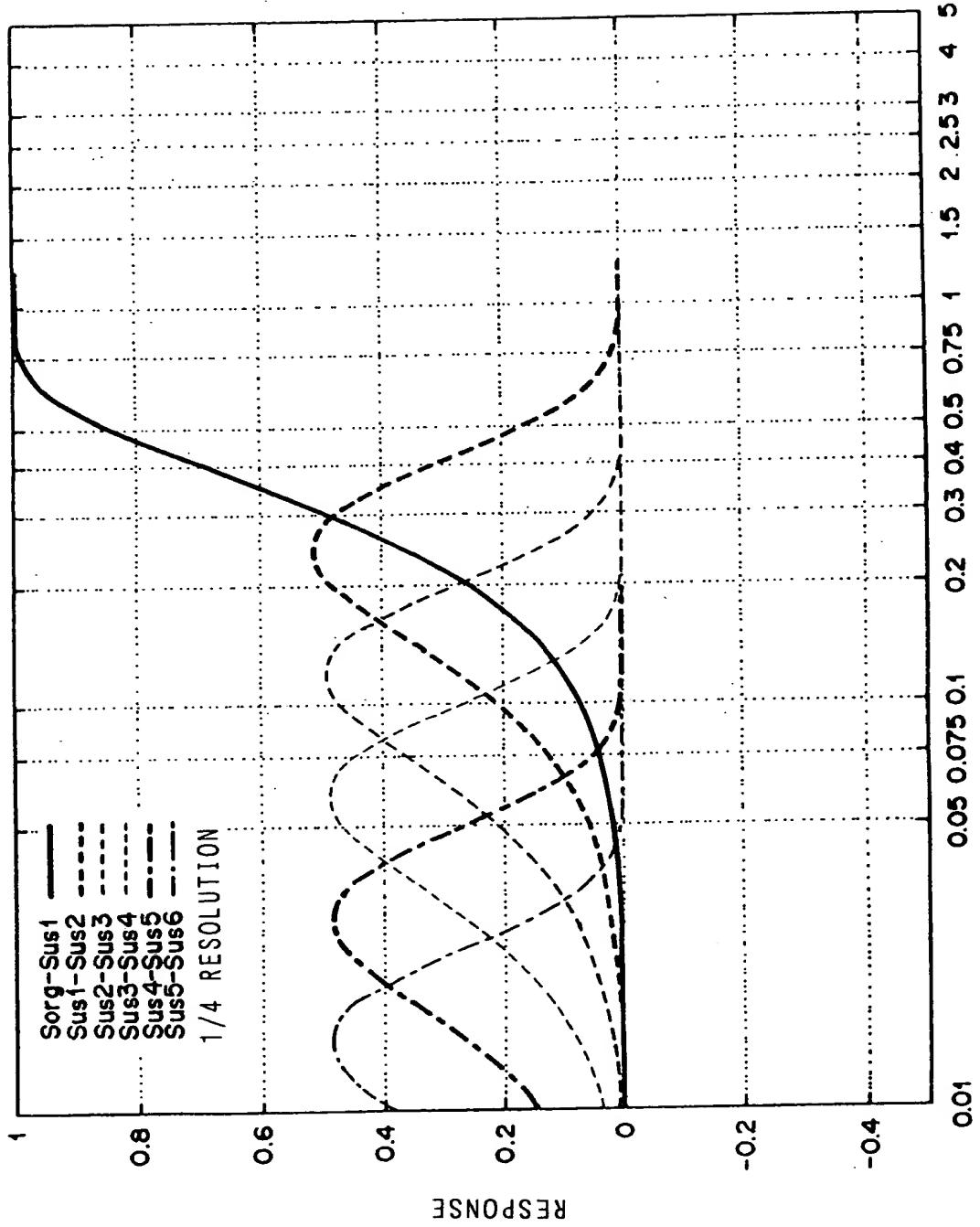
0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0





F - G : 48

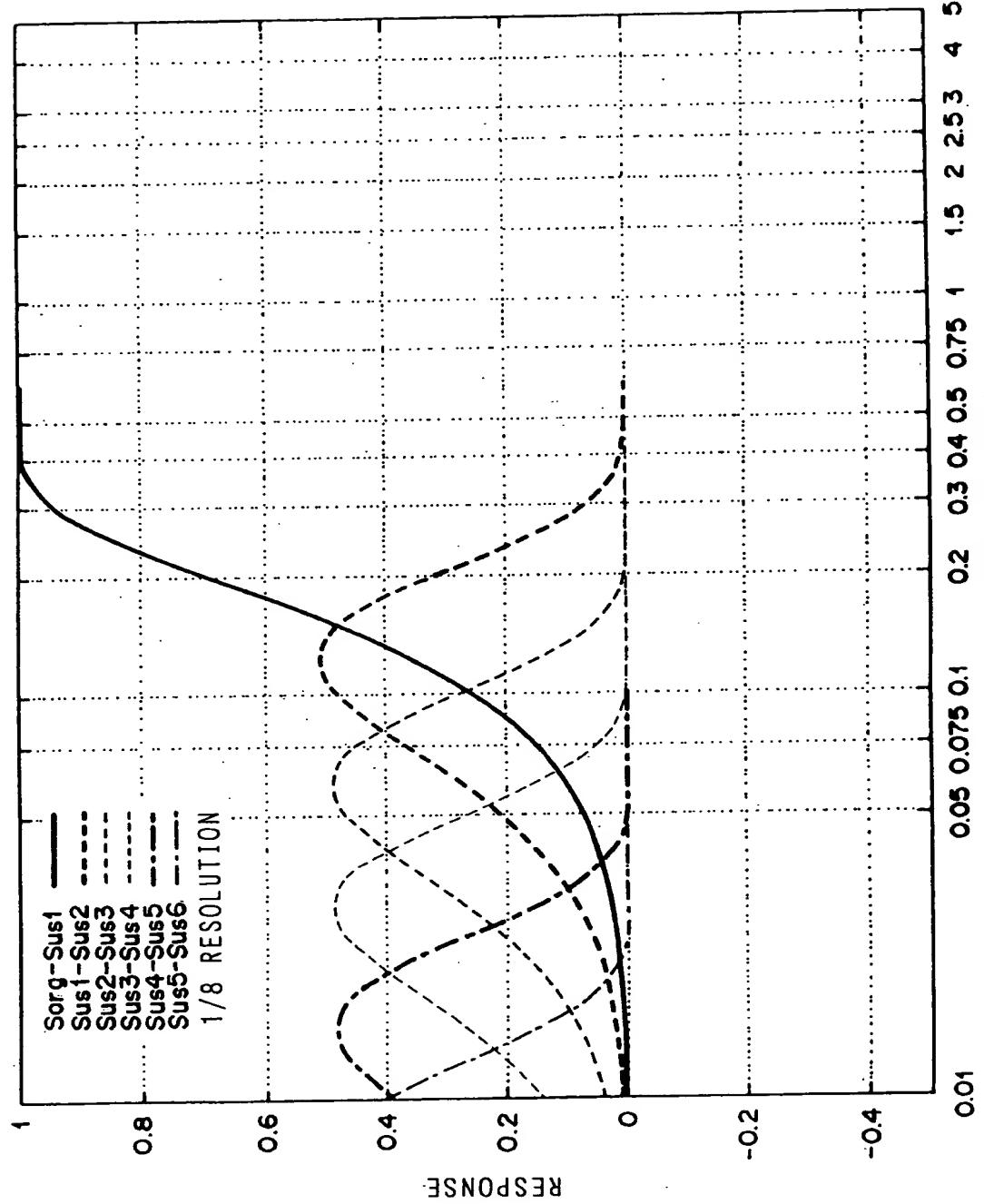
0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10



0.05 0.075 0.1 0.2 0.3 0.4 0.5 0.75 1 1.5 2 2.5 3 4 5  
FREQUENCY (cycle/mm)

**F | G . 49**

20 18 16 14 12 10 8 6 4 2 0



0.05 0.075 0.1 0.2 0.3 0.4 0.5 0.75 1 1.5 2 2.5 3 4 5

**F - G . 50**

F I G . 51

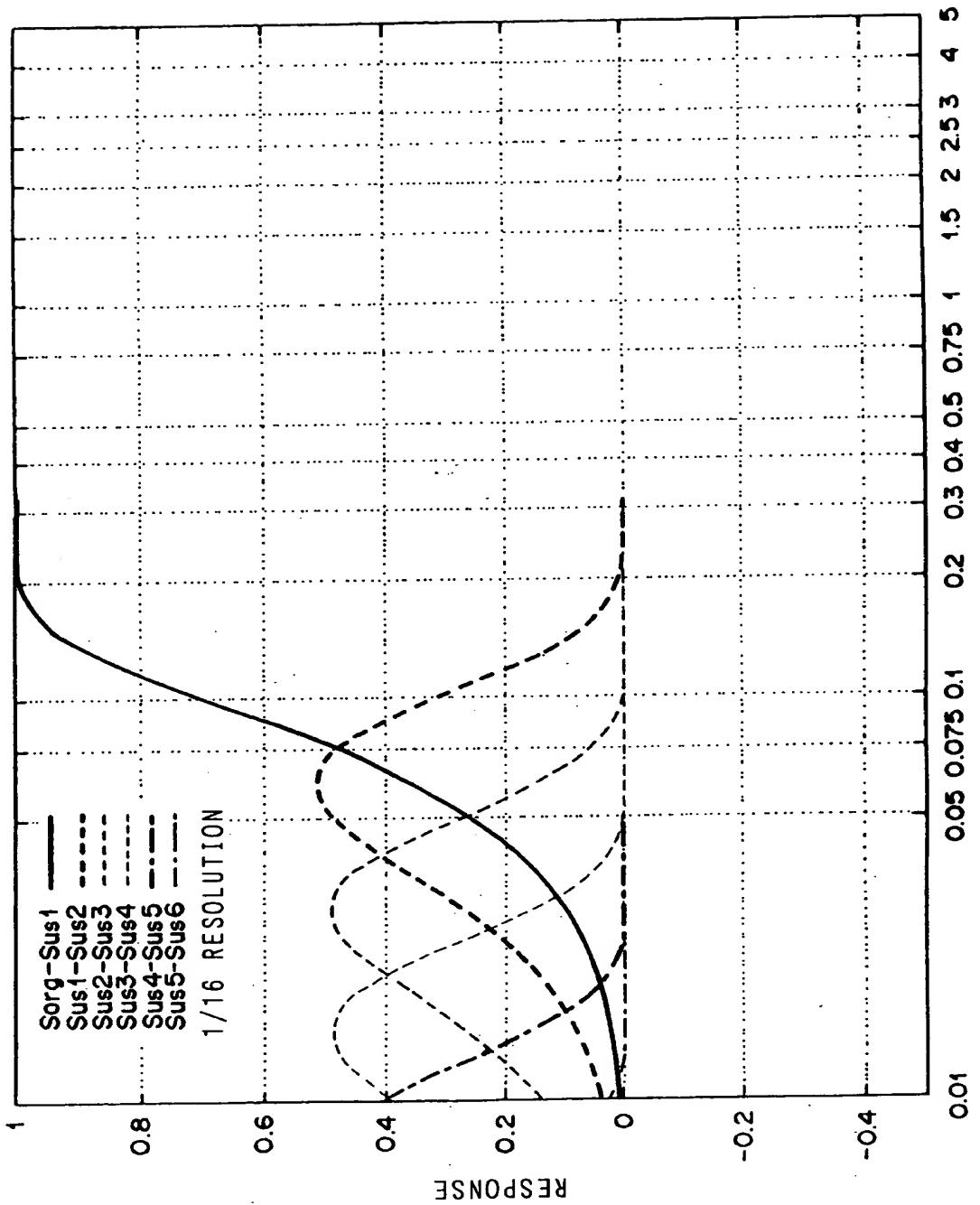
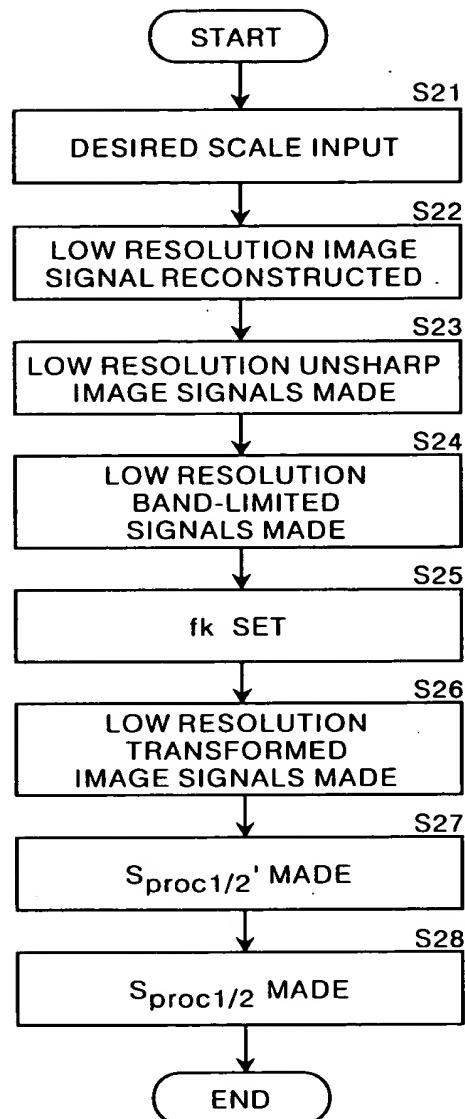


FIG. 52



# FIG.53

REFERENCE ORIGINAL IMAGE	$S_{org}$	$S_{us}^1$	$S_{us}^2$	$S_{us}^3$	$S_{us}^4$	$S_{us}^5$	$S_{us}^6$
1/2		$S_{org1/2}$	$S_{us}^{1\frac{1}{2}}$	$S_{us}^{2\frac{1}{2}}$	$S_{us}^{3\frac{1}{2}}$	$S_{us}^{4\frac{1}{2}}$	$S_{us}^{5\frac{1}{2}}$
1/4			$S_{org1/4}$	$S_{us}^{1\frac{1}{4}}$	$S_{us}^{2\frac{1}{4}}$	$S_{us}^{3\frac{1}{4}}$	$S_{us}^{4\frac{1}{4}}$
1/8				$S_{org1/8}$	$S_{us}^{1\frac{1}{8}}$	$S_{us}^{2\frac{1}{8}}$	$S_{us}^{3\frac{1}{8}}$
1/16					$S_{org1/16}$	$S_{us}^{1\frac{1}{16}}$	$S_{us}^{2\frac{1}{16}}$

0 2 4 6 8 0 2 4 6 8 0

# FIG. 54

REFERENCE ORIGINAL IMAGE	$S_{org} - S_{us} 1$	$S_{us} 1 - S_{us} 2$	$S_{us} 2 - S_{us} 3$	$S_{us} 3 - S_{us} 4$	$S_{us} 4 - S_{us} 5$	$S_{us} 5 - S_{us} 6$
1/2	$S_{org1/2} - S_{us} 1 1/2$	$S_{us} 1 1/2 - S_{us} 2 1/2$	$S_{us} 2 1/2 - S_{us} 3 1/2$	$S_{us} 3 1/2 - S_{us} 4 1/2$	$S_{us} 4 1/2 - S_{us} 5 1/2$	$S_{us} 5 1/2 - S_{us} 6$
1/4	$S_{org1/4} - S_{us} 1 1/4$	$S_{us} 1 1/4 - S_{us} 2 1/4$	$S_{us} 2 1/4 - S_{us} 3 1/4$	$S_{us} 3 1/4 - S_{us} 4 1/4$	$S_{us} 4 1/4 - S_{us} 5 1/4$	$S_{us} 5 1/4 - S_{us} 6$
1/8	$S_{org1/8} - S_{us} 1 1/8$	$S_{us} 1 1/8 - S_{us} 2 1/8$	$S_{us} 2 1/8 - S_{us} 3 1/8$	$S_{us} 3 1/8 - S_{us} 4 1/8$	$S_{us} 4 1/8 - S_{us} 5 1/8$	$S_{us} 5 1/8 - S_{us} 6$
1/16	$S_{org1/16} - S_{us} 1 1/16$	$S_{us} 1 1/16 - S_{us} 2 1/16$	$S_{us} 2 1/16 - S_{us} 3 1/16$	$S_{us} 3 1/16 - S_{us} 4 1/16$	$S_{us} 4 1/16 - S_{us} 5 1/16$	$S_{us} 5 1/16 - S_{us} 6$

# FIG.55

REFERENCE ORIGINAL IMAGE	f 1	f 2	f 3	f 4	f 5	f 6
1/2		f 2	f 3	f 4	f 5	f 6
1/4			f 3	f 4	f 5	f 6
1/8				f 4	f 5	f 6
1/16					f 5	f 6

# FIG.56

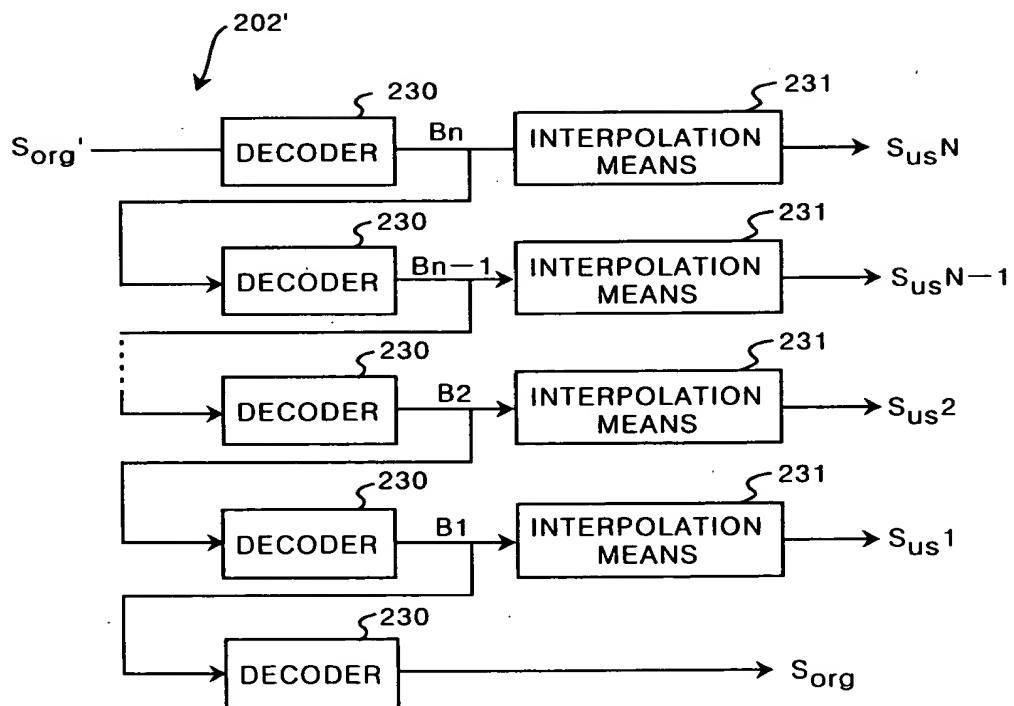


FIG. 57

# FIG.58

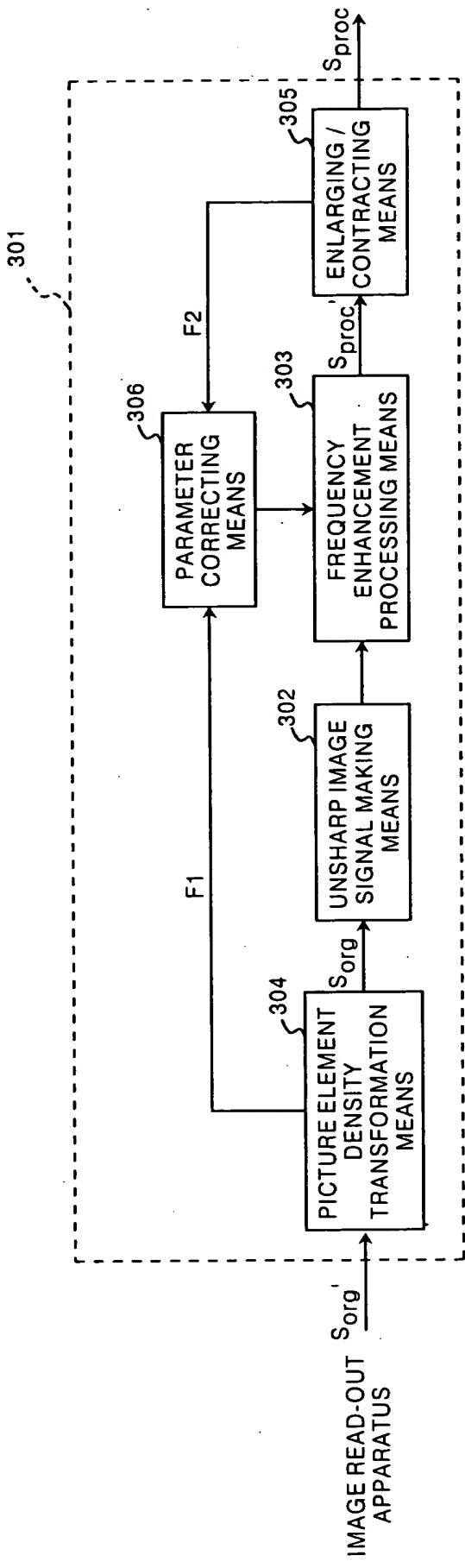
4/1                    f 1 f 1 f 1 f 2 f 3 f 4 f 5

2/1                    f 1 f 1 f 2 f 3 f 4 f 5

original image signal    f 1 f 2 f 3 f 4 f 5

ପାତା ୧୦୦

# FIG. 59



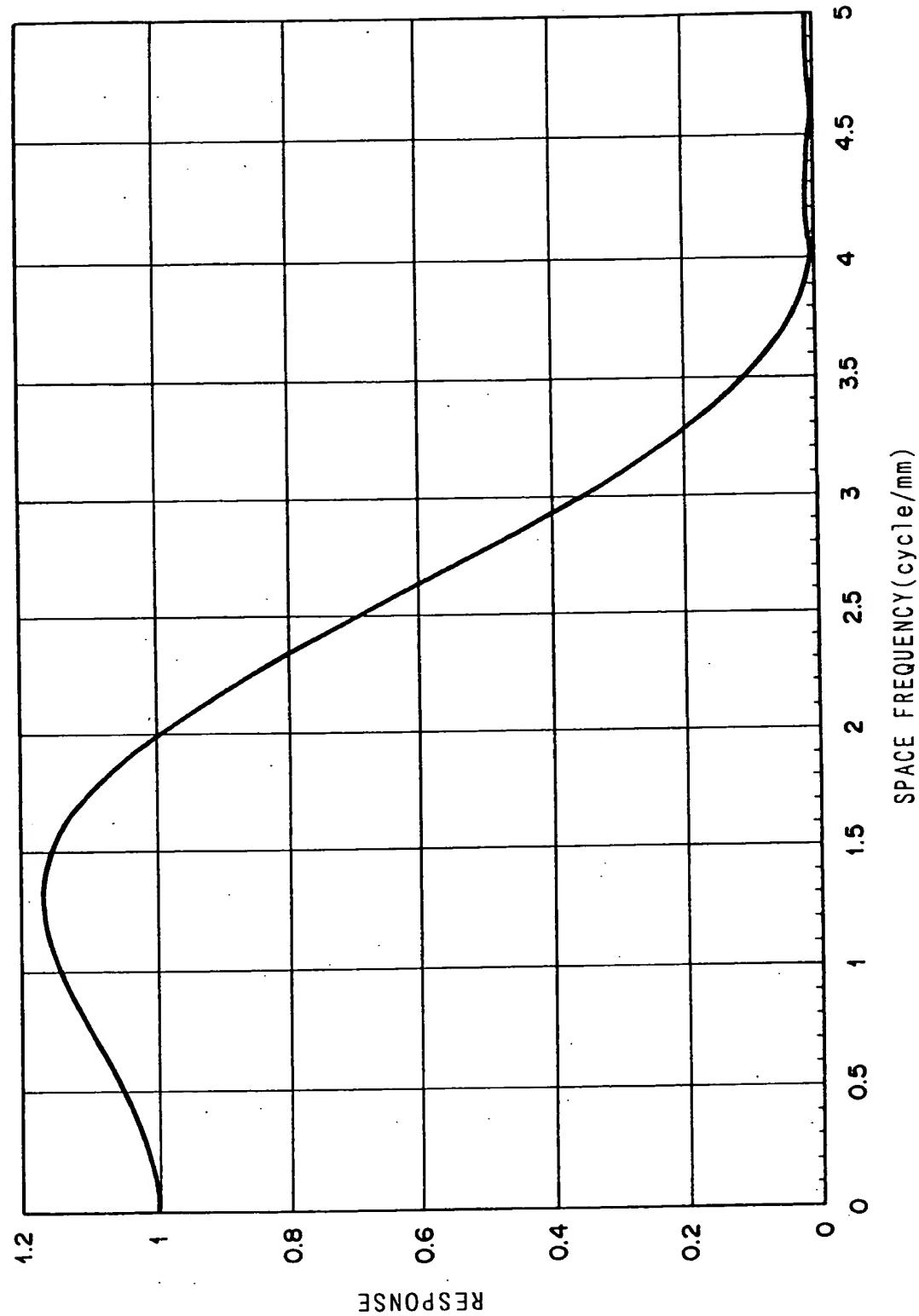
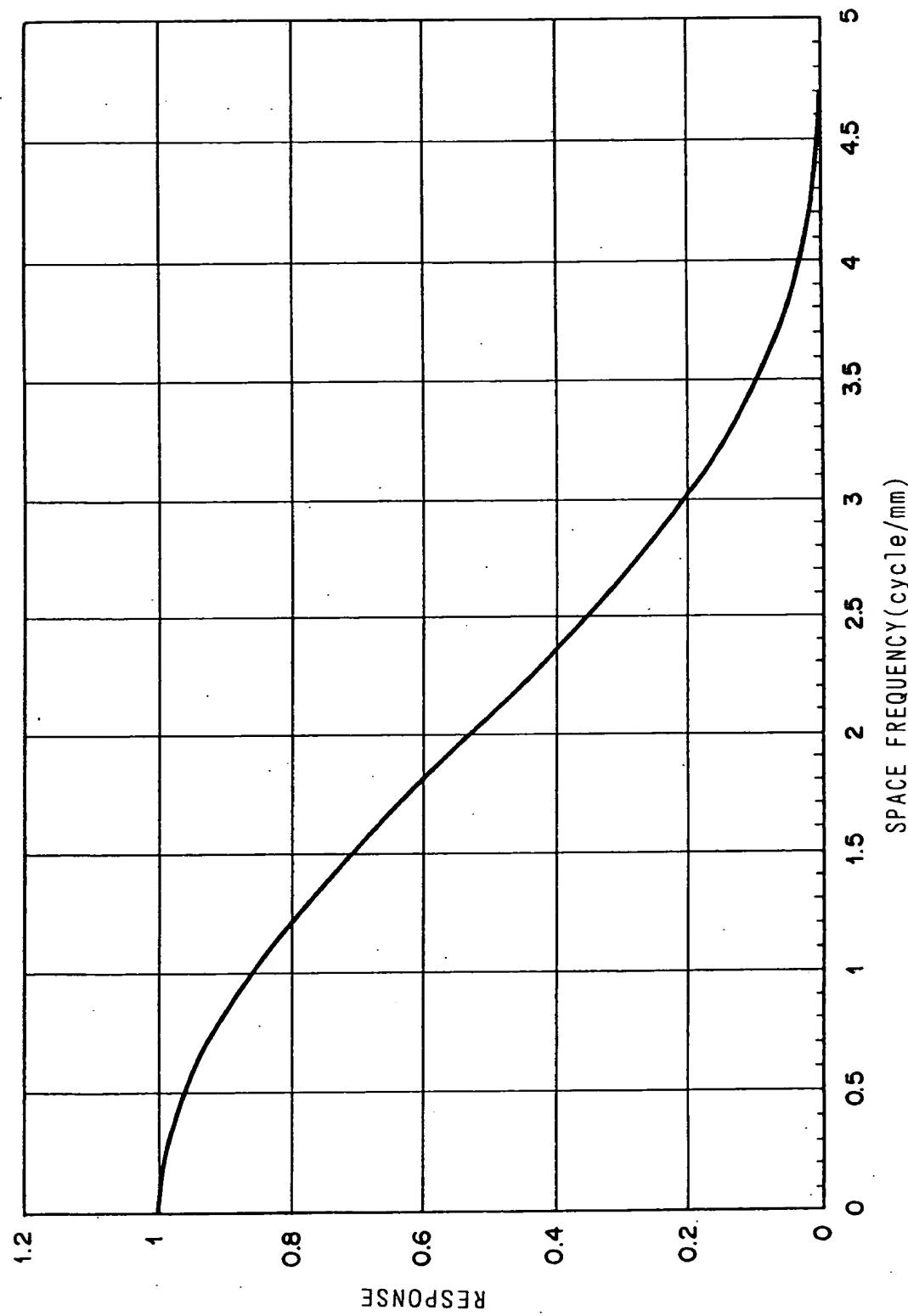
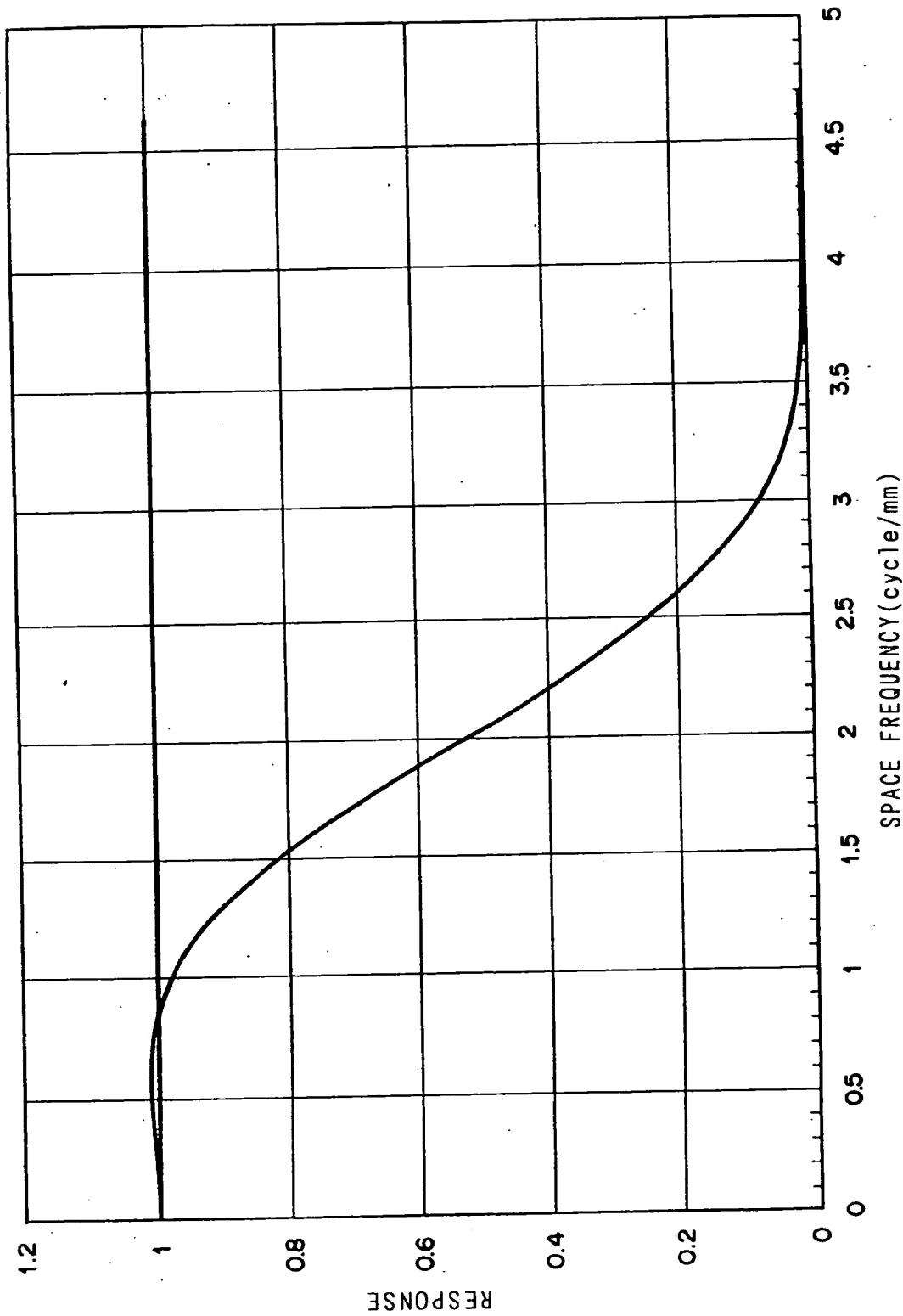


FIG. 60



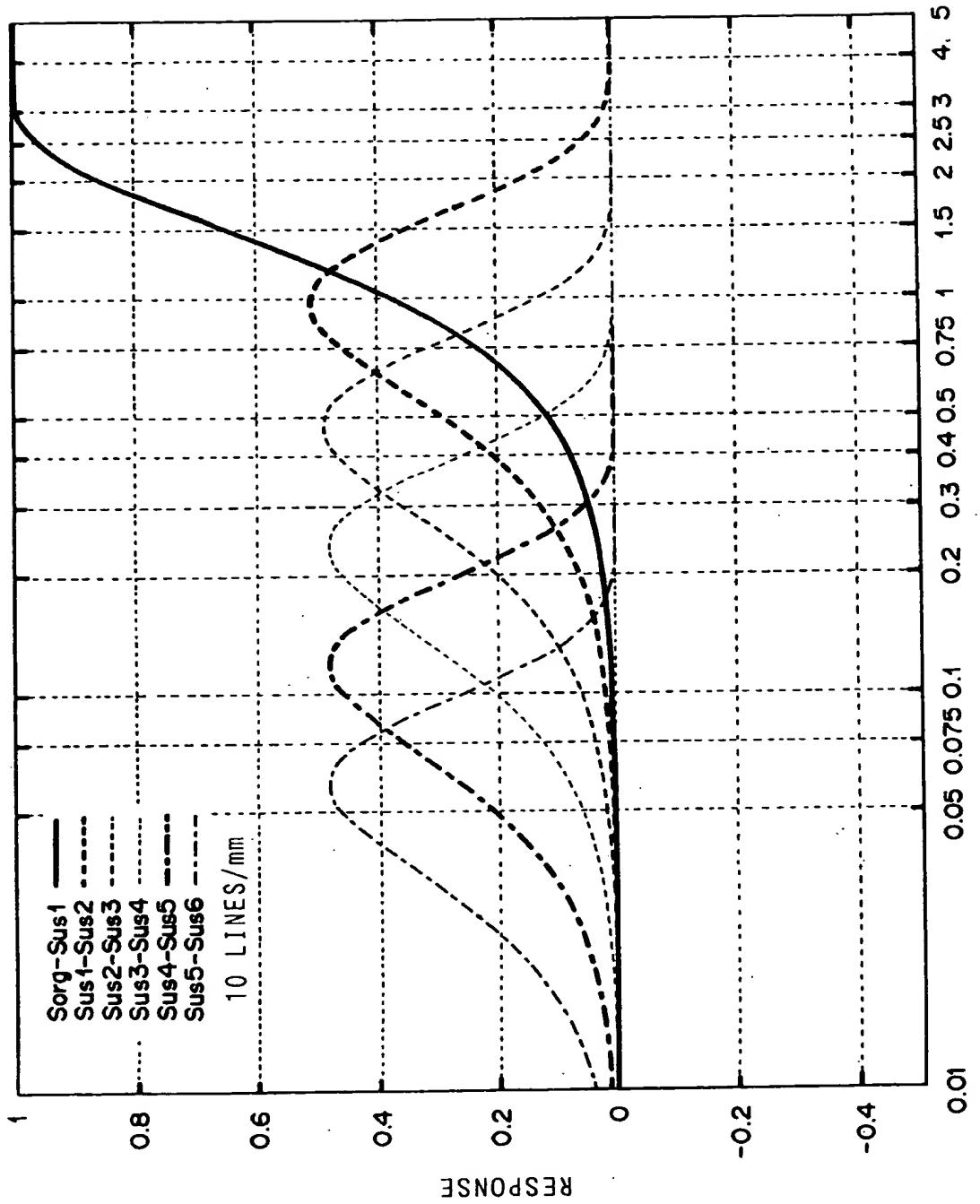
F I G . 61

000432696 "0141400



**F I G . 62**

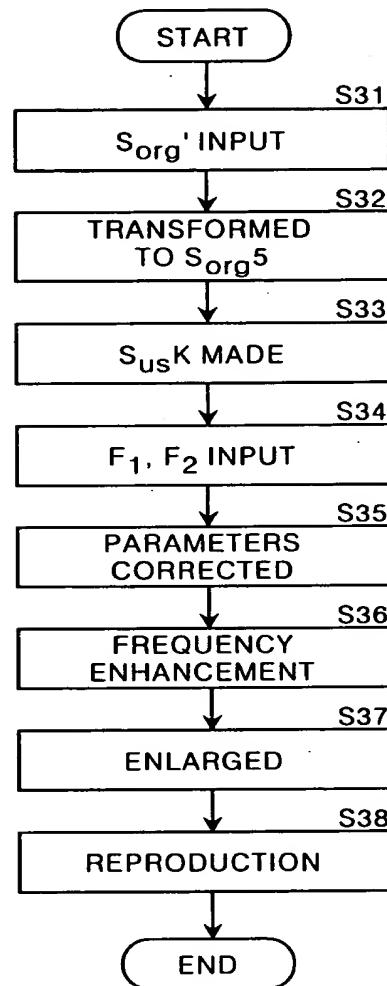
0.01 0.2 0.4 0.6 0.8 1



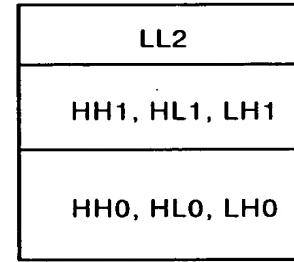
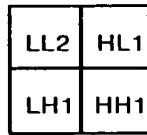
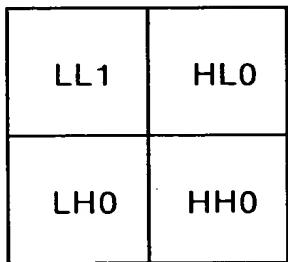
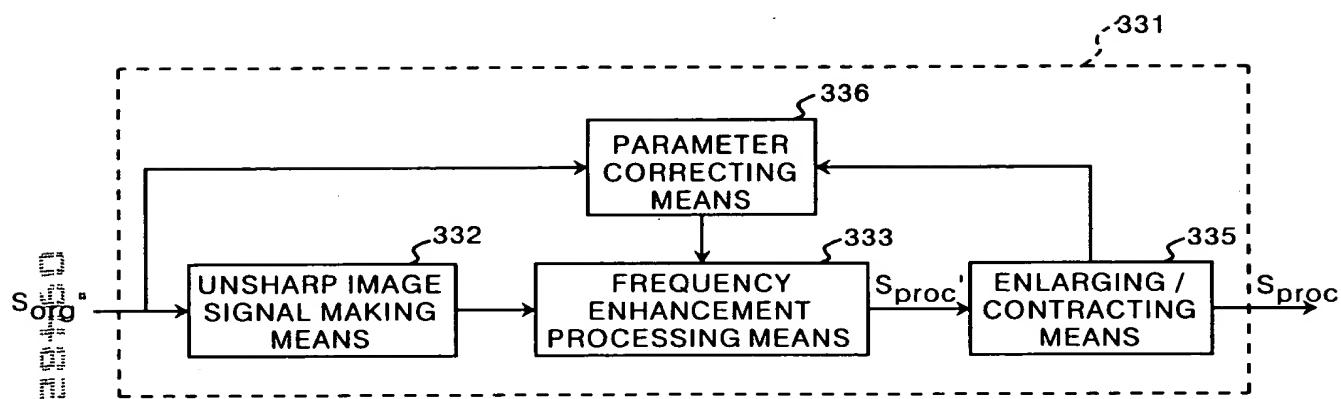
F1G.63

# FIG.64

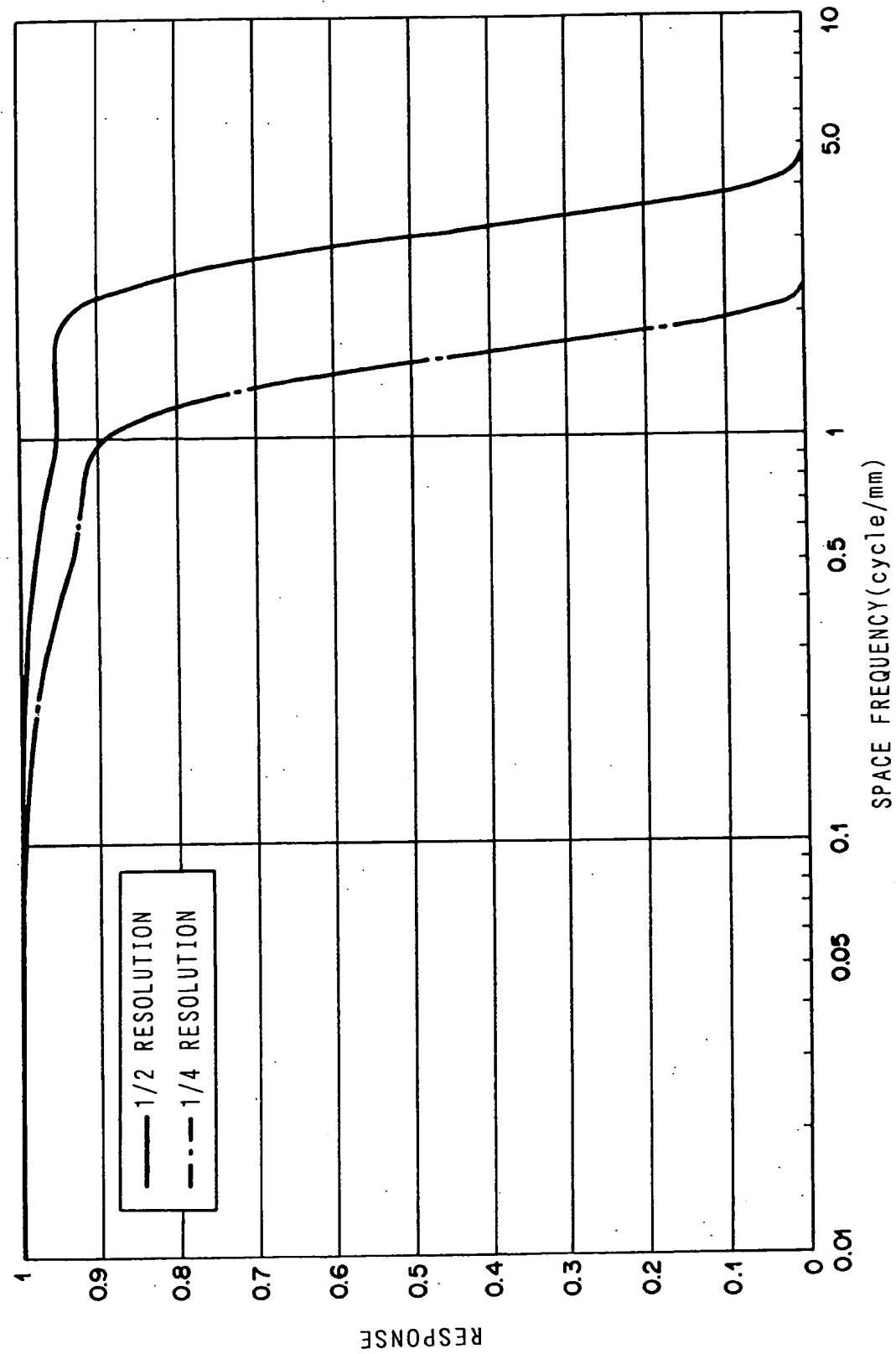
09162266-031460



# FIG.65

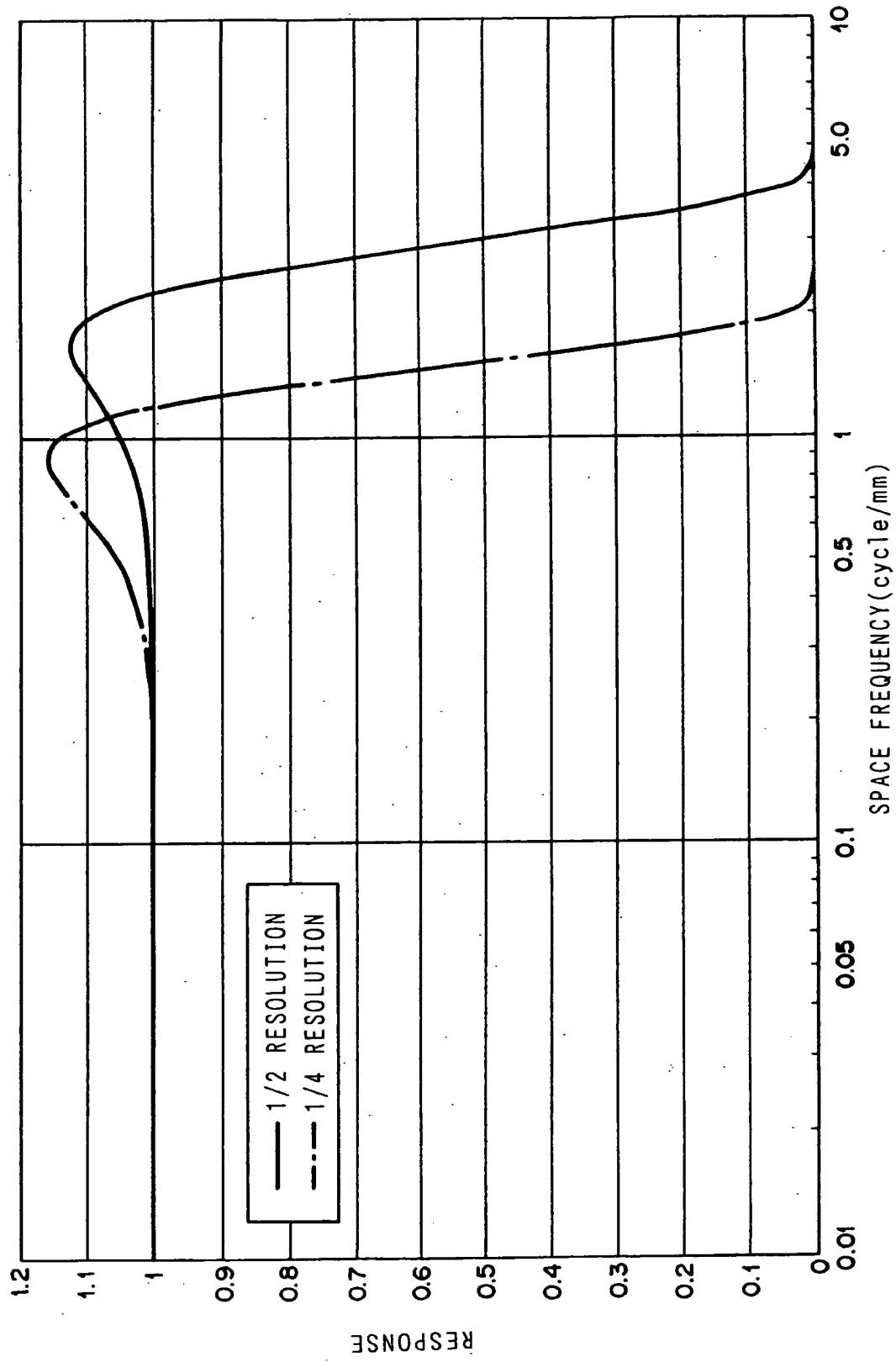


# FIG.66A FIG.66B FIG.66C



F - G. 67

0.000 0.005 0.010 0.015 0.020 0.025 0.030

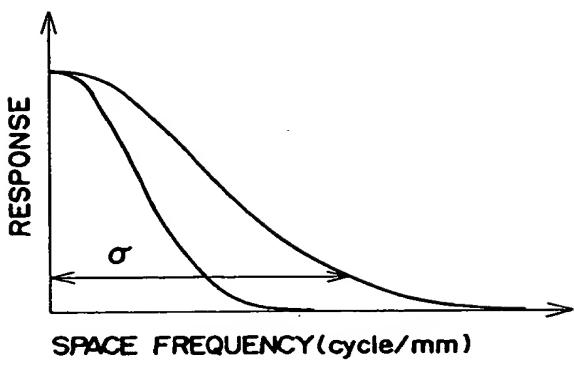


**F I G . 68**

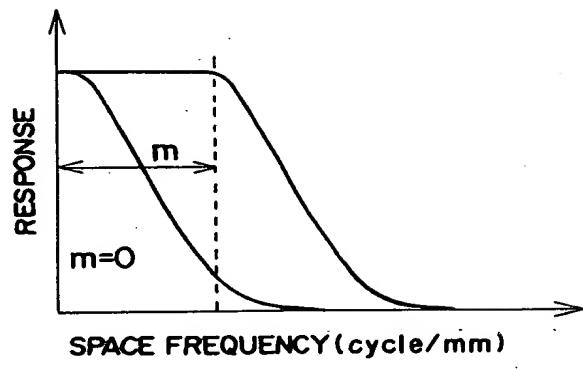
# FIG. 69

SPACE FREQUENCY	RESPONSE
0.00	1.00
0.01	1.00
.....	.....
0.05	0.99
.....	.....
.....	.....
2.55	0.54
.....	.....
.....	.....

09462396 04.1.1990



**F I G . 70A**



**F I G . 70B**